u2i

discover
OUR PROJECTS

u2i

For the best experience, please rotate your screen horizontally.

iNDEX

Due to confidentiality reasons, we can't disclose all of our customer's identity

ON-GOiNG

We never wanted to work at a faceless outsourcing company, anonymously going through a daily list of tasks before home time. So we set up u2i to be the complete opposite. We work directly with our clients, spotting ways we can help them grow their businesses.

THE YEAR 2025 MARKS THE 16TH ANNIVERSARY OF THIS COOPERATION WHICH BEGAN WITH A SINGLE DEVELOPER.

Currently it is 8 people strong

ABOUT THE PROJECT

This project is about measuring and analyzing social engagement with TV, streaming and sports events. It focuses on helping TV networks, agencies, advertisers, leagues and sports teams understand their social footprint, refine their partnership strategies and measure media impact. It collects and combines metrics into accessible and filterable ratings and data-reports.

OUR ROLE

Over the years, we've built a long-lasting partnership with our Client, resulting in grossing millions of $ worth of product. We've accompanied our Client through their journey, from a startup to an international multi-level analytics business.

WHAT'S NEXT

In the near future, we plan to expand support for tracking emerging platforms such as TikTok, Reddit, and Threads. Additionally, we aim to leverage large language models (LLMs) to generate qualitative summaries of organic engagement, for example, identifying audience sentiment around a show's premiere (e.g., satisfied, excited, disappointed) and, more importantly, uncovering the reasons behind those sentiments based on real user comments.

TECHNOLOGIES

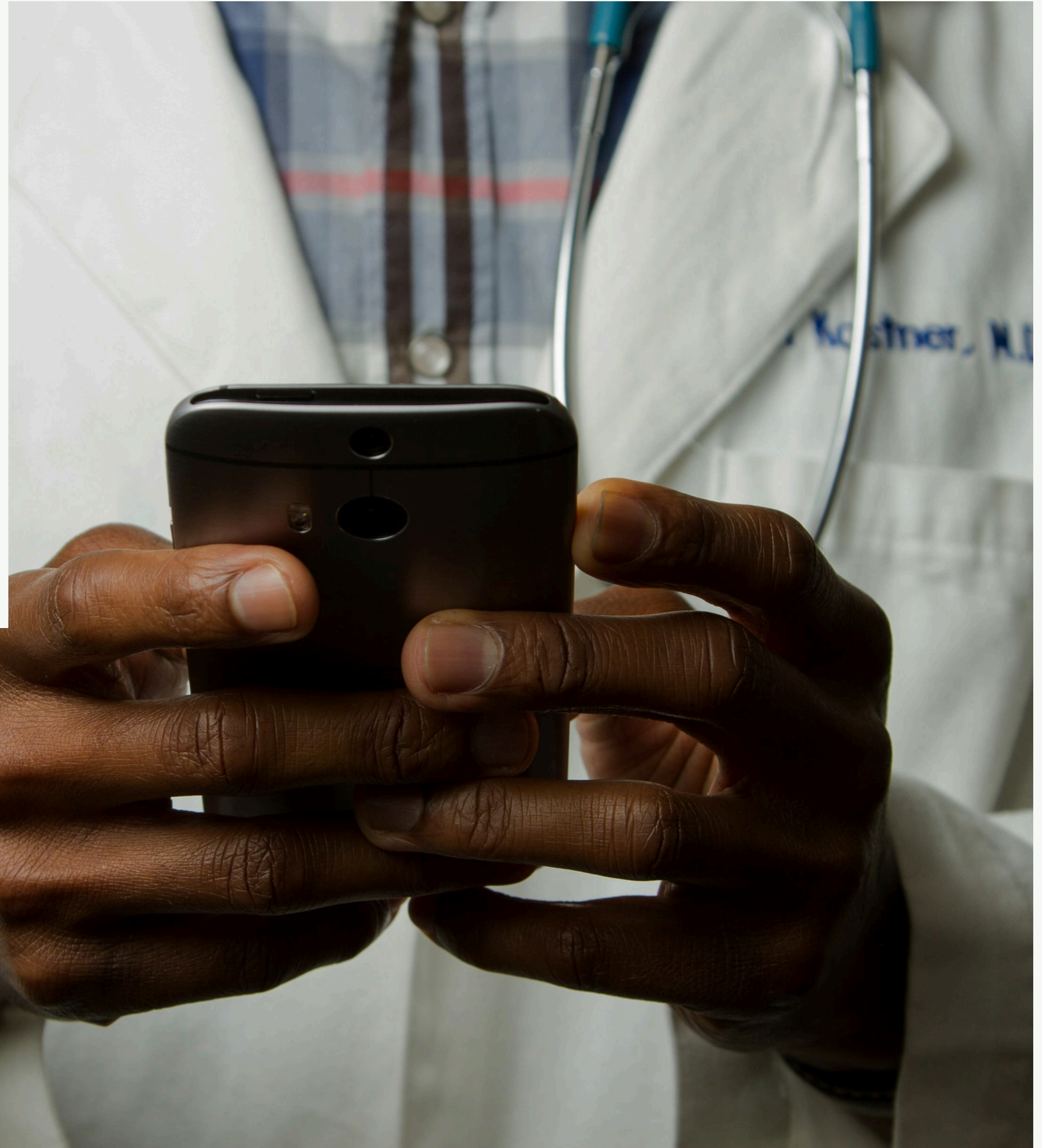Backend: Ruby, RoR, MySQL, PostgreSQL, Sidekiq, Java, Scala
Frontend: JavaScript, TypeScript, React, Redux, RxJS
BigData: AWS Athena, Apache Hadoop, Apache Hive
Infrastructure: AWS, Lambda, EMR, Terraform, Jenkins, Docker, Chef

WE WORK ON STREAMLINING THE PROCESS OF NURSE SCHEDULING.

by designing better UX and automating processes

ABOUT THE PROJECT

The goal of our project is to simplify and optimize the process of nurse schedule creation. We are developing a web application that assists nurses and managers with their schedules by enabling nurses to input their preferences directly into the calendar grid. This approach allows nurse managers to efficiently balance schedules with less effort, ensuring a more precise and fair distribution of shifts. Additionally, our system ensures that all scheduling constraints are met, making the process not only easier but also compliant with all requirements.

OUR ROLE

Our team is committed to developing this application from the ground up. We serve a dual role: as technical architects building the core of the application, and as strategic advisors ensuring the system meets the unique needs of both nursing staff and management.

WHAT'S NEXT

After the successful roll-out incorporating 10 pilot units, we are working on extending system capabilities to support more complex workflows of centralized and emergency departments. This is a step towards achieving our overarching goal of improving scheduling processes and scaling the system to the entire organization.

TECHNOLOGIES

Python, React, and GraphQL, Postgres, Jenkins, Docker AWS: Lambda, RDS, ECS

FROM 20 MINUTES TO 3: AI-DRIVEN PROSTATE CONTOURING.

advancing precision care in radiation oncology

ABOUT THE PROJECT

This project delivers an automated processing pipeline for prostate MR images, transforming a traditionally manual 20-minute contouring task into a streamlined 3-minute AI-driven operation. The system receives DICOM images directly from MR machines, processes them using a pretrained model, and publishes contours to clinical storage systems automatically.

OUR ROLE

We engineered the entire AI-enabled processing pipeline, integrating DICOM intake, model inference, and clinical output, while leveraging AWS technologies to ensure scalable, secure, and fast performance.

WHAT'S NEXT

We're aiming to further reduce processing time and enhance monitoring with a dashboard that provides real-time insights into pipeline status and contouring metrics.

TECHNOLOGIES

AWS SageMaker and other AWS services, Python, DICOM

WOULDN'T IT BE NICE TO RELAX KNOWING THAT YOU WON'T MISS ANY OF YOUR DOCTORS APPOINTMENTS?

and a piece of cake to schedule it in the first place?

ABOUT THE PROJECT

We're building a serverless platform for one of the top academic medical centers in the US. Designed with microservices from day one, it automates SMS and IVR appointment scheduling and scales into a powerful two-way patient communication system - reducing call center load and boosting patient engagement.

OUR ROLE

We developed the appointment reminder system from the ground up, integrating it with a variety of internal hospital systems. The solution successfully replaced a third-party vendor product, dramatically cutting messaging costs while increasing reliability and flexibility. We've since enhanced the platform with natural language capabilities using AWS Lex, allowing patients to interact with SMS workflows through conversational language. The microservice architecture enables fast iteration and smooth scaling across the entire organization.

WHAT'S NEXT

Today, our system handles tens of thousands of messages daily. The next major step is the development of a custom AI Assistant using OpenAI's models - unlocking new possibilities for intelligent automation, dynamic scheduling, and patient support. This marks the beginning of a broader initiative to bring advanced AI-driven features into healthcare communication.

TECHNOLOGIES

Python, PostgreSQL, Docker, OpenAI
Architecture: Microservices, Serverless (AWS SAM)
AWS: Lambda, Fargate, RDS, DynamoDB, SQS, Lex
Communication: Twilio (SMS, IVR)

a SMaRT SCHeDULiNG TOOL THaT SaveS DOCTORS HOURS
so they can focus on patients, not calendars

ABOUT THE PROJECT

We're building a comprehensive scheduling tool for a wide range of medical professionals, designed to help them better manage their time. As a greenfield project, we're focused on creating an accessible, easy-to-use platform that replaces outdated, manual processes. A few thousand users are expected to onboard in the first phase.

OUR ROLE

We're responsible for the full-cycle product development - from early discovery and planning, through design and implementation, to deployment. Our team is shaping the technical foundation and maintaining operations of the platform to ensure it meets the demanding environment of healthcare operations.
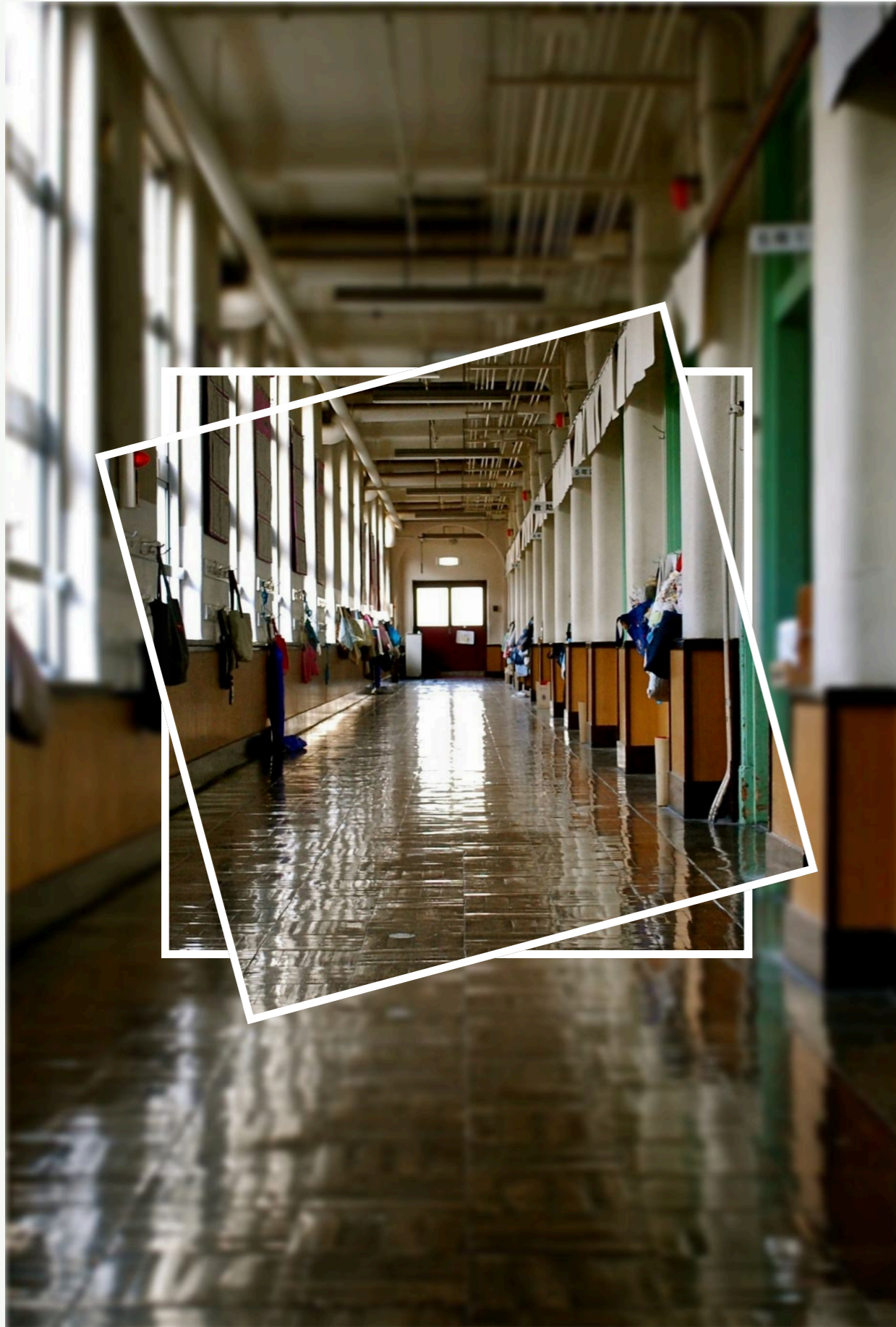
WHAT'S NEXT

With the first deployment still ahead, we're focused on delivering our key value: automated scheduling. By saving hours of administrative work, we aim to help doctors spend more time doing what matters most - caring for patients.

TECHNOLOGIES

Python, GraphQL, React

TURNiNG COMPLEXiTY iNTO CLARiTY. *automated school scheduling at scale*

ABOUT THE PROJECT

Timely Schools builds a platform that revolutionizes how US schools build and manage their schedules by automating the process using integer linear programming models. It delivers optimized, conflict-free timetables at scale. With a user-friendly interface and powerful backend logic, schools save time and eliminate manual scheduling headaches.

OUR ROLE

u2i engineers are deeply integrated in a few different global development teams with different responsibilities.

WHAT'S NEXT
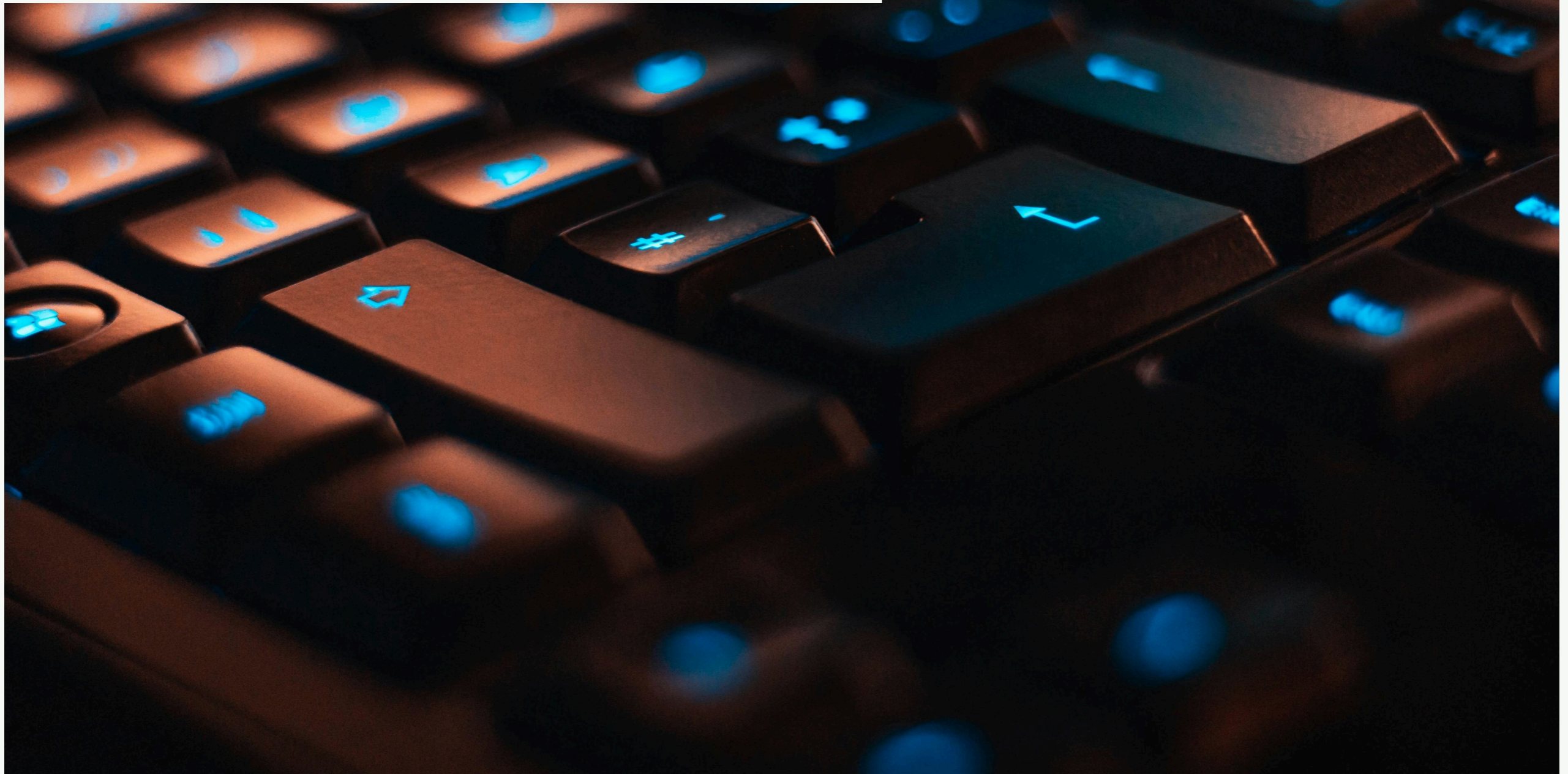
We're now focused on scaling the platform for rapid growth—enhancing infrastructure for high availability, streamlining operations, and refining the solver for even faster and more accurate scheduling.

TECHNOLOGIES

Python, AWS, MongoDB, TypeScript, React, Integer Linear Programming

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CREATIVE LEARNING PLATFORM USED BY MILLIONS WORLDWIDE.

turning raw data into actionable insights

ABOUT THE PROJECT

This project supports a large-scale creative learning platform where millions of young users around the world create interactive stories, animations, and games. The platform encourages learning through exploration and coding, offering a safe space for self-expression and collaboration. Behind the scenes, vast amounts of user-generated content and behavioral data are continuously collected and analyzed to support product decisions, community health, and educational research.

OUR ROLE

We design and implement robust data engineering solutions that turn raw operational data into meaningful, accessible information. Our work spans from backend automation to enabling business stakeholders - we help define metrics, evaluate feasibility of data requests, and guide the client's team in using BI tools for self-service analytics.

WHAT'S NEXT

We plan to extend the platform by ingesting data from additional heterogeneous sources - including access logs, public and internal APIs, and Redis-based caches. These integrations will enrich the analytical landscape, enabling us to design new models that capture meaningful user behaviors and support advanced reporting to inform strategic decisions such as cost optimization and product development priorities.

TECHNOLOGIES

dbt, PostgreSQL, AWS Glue, Apache Spark, Preset, Apache Airflow, Terraform, AWS

TRANSFORMING STUDENT DATA INTO STRATEGIES FOR SUCCESS.
in college, career, and beyond

ABOUT THE PROJECT

The project focuses on analyzing high school student data to generate an audit deck that supports efforts to improve post-secondary success. It examines course-taking patterns, academic performance, and levels of college preparedness across various subgroups, including gender and ethnicity. The insights are designed to help high school superintendents proactively identify gaps and opportunities, enabling data-driven decisions that enhance student outcomes beyond graduation.

OUR ROLE

We are implementing and validating key metrics and visualizations to support the first pilot school.

WHAT'S NEXT

Scaling up to support multiple additional schools and district-wide audit decks, with continued enhancements to the frontend and automated deck generation to meet broader needs at scale.

TECHNOLOGIES

Python, Pandas, PostgreSQL

HELPING YOU CHOOSE a BENEFiTS PARTNER.

that's JUST right

ABOUT THE PROJECT

Our project is designed to simplify daily operations of PEO consultants. A PEO is a service used by businesses to outsource HR tasks like payroll, benefits or insurances. Our software helps PEO consulting companies by facilitating communication between consultants and their clients. It simplifies the evaluation of PEO services through structured workflows for data collection, generated pricing comparisons, and integrated communication tools.

OUR ROLE

It started out a tool for solving problems of a single PEO consultancy company. Our team of full-stack software developers and UX experts worked closely with the customer and crafted a web application from scratch. Currently, we are transforming the application into a SaaS platform that could help other consulting companies.

WHAT'S NEXT

Our goal for the coming months is to build an AI-powered document processing pipeline to help customers extract relevant information from user-uploaded documents. We're also expanding our customer base by adding multitenancy support and integrating payments, while continuing to assist customers with marketing and branding.

TECHNOLOGIES

Ruby on Rails, Python, Hotwire, Stimulus, PostgreSQL, AWS

Recently ended

We have many projects that come in different shapes and colors. Some small, dynamic, other big and static, some of them interesting and some… Not so much. That's life. The thing that you'll definitely like is the real impact you'll have on each an every product you make.

u2i

CAN WE IMPROVE CHILDREN'S ATTENDANCE AT SCHOOL?

Powerschool has found the answer

ABOUT THE PROJECT

This project began as the start-up Kinvolved, which we supported from its earliest stages through to its successful acquisition by PowerSchool. Kinvolved is an edtech initiative focused on improving student attendance in U.S. schools by combining real-time attendance analytics with a parent communication platform. Its core mission is to combat absenteeism through the integration of technology and human-centered interventions.

OUR ROLE

Over the course of our 8+ year partnership, we helped develop a stable, scalable, and robust platform that supported Kinvolved's rapid customer growth and long-term success.

TECHNOLOGIES

Ruby on Rails, AWS + Terraform, PostgreSQL, AngularJS, React Native, Serverless

ENCOURAGING KIDS TO READ MORE. *by harnessing parent-teacher collaboration*

ABOUT THE PROJECT

We developed a system designed to help educators and parents foster strong reading habits and improve children's literacy skills. The platform has two interconnected components, supported by a shared back-end. The first is a mobile-friendly web app used by parents at home to select and apply personalized reading strategies. The second is a web platform for teachers and organizations to track student progress and plan future activities.

OUR ROLE

Over the past 6 years, we have built and continuously evolved this system. During the COVID-19 pandemic, it became especially vital, supporting parents as they took a more active role in their children's education. We remain committed to enhancing the platform, regularly introducing new features to serve the thousands of users who rely on it every day.

TECHNOLOGIES

Ruby on Rails, PostgreSQL, React, JavaScript, Google Cloud Platform

ON THE WAY TO SIMPLIFY THE ORGAN TRANSPLANT PROCESS. *by optimizing communication between people involve*

ABOUT THE PROJECT

The goal of this project was to streamline and optimize communication among all stakeholders involved in organ transplantation procedures within a medical center. By minimizing unnecessary notifications, the system allows teams to stay focused on critical tasks. It creates structured communication channels for each group and provides real-time tracking of the entire transplant process.

OUR ROLE

Our team designed and developed the system from the ground up, serving as both technical experts and strategic consultants. We contributed to shaping the project from both technical and business perspectives, ensuring a solution that is both practical and impactful.

TECHNOLOGIES

Python, PostgreSQL, Docker, Jenkins, AWS: Lambda, RDS, ECS, Serverless, Application Model Integration with Webex

FACILITATING CONVERSATIONS *where education meets education*
BETWEEN EDUCATIONAL LEADERS.

ABOUT THE PROJECT

The app helps our client organize conferences where representatives of school districts meet providers of IT solutions for education. The goal is to create an optimal meeting schedule for each event given the number of participants and their needs.

OUR ROLE

We implemented a meeting scheduling algorithm based on linear programming. We've been developing a web interface that helps admins manage a conference and collect input from participants in order to enhance the resulting schedule.

TECHNOLOGIES

Elixir, Phoenix Framework, LiveView, Oban, PostgreSQL, Fly.io, PuLP

iNTERNaL iNiTiaTives

At u2i, we can dedicate up to 10% of our time to self-development. Sometimes we use this time for creating internal applications that improve the work of the entire office. Below you can discover some of our most successful initiatives.

IMAGINE TIME IS A TOOL. *it's up to you how to use it!*

ABOUT THE PROJECT

Unspoken problems don't get solved—reflection is the quiet force that drives great teams. RetroTool makes sprint retrospectives easy for remote and hybrid teams, helping turn experience into insight and growth. Used by ~60,000 users monthly, it has powered over 850,000 retrospectives since launch. Naturally, u2i'ers use it for their own scrum retros too.

TECHNOLOGIES

JavaScript, Meteor, React, MongoDB, Docker, Google Cloud Platform, Kubernetes (GKE), Terraform

OUR GOAL

We take full ownership of every aspect of the product from idea to delivery, including DevOps, UI/UX, marketing, maintenance, and support. Building it makes us better at building for others, too. We're working toward ISO 27001 compliance to meet enterprise security standards, and we shape our roadmap based on user feedback. Next up: AI-powered features for team collaboration and long-term reporting.

Ready for more? Click here https://retrotool.io/

THE WORLD'S MOST INACCURATE WEB DEVELOPMENT SHOP SIMULATOR. *we've had tons of fun building it!*

ABOUT THE PROJECT

We've made the world's most inaccurate web development shop simulator in the form of a card game. We designed the whole game and then got it printed; now we simply enjoy playing it.

Ready for more? Click here https://softwar.u2i.com/#creators

TECHNOLOGIES

Brain, Crayons, Paper

THe app THAT CALCULATES EVERYTHING FOR YOU. *while you enjoy a cup of coffee in the kitchen*

ABOUT THE PROJECT

The majority of u2i'ers are contractors and - as you might have experienced - it comes with some extra effort, such as a necessity of preparing invoices. In order to help facilitate this process, our developers created a special app that supports you in some b2b activities. Well, it actually handles most of the things for you - so you don't have to worry about all the calculations or preparing invoices. Instead, you can spend more time focusing on your project activities or enjoying a cup of tea in the office kitchen.

TECHNOLOGIES

Angular, Node.js, MongoDB, Heroku

An educational app that builds writing skills *because true writing goes beyond the classroom*

About the project

WordPath brings personalized, AI-powered writing support into the classroom, aligned with curriculum goals. We co-create the app and handle everything technical - from infrastructure and DevOps to full-stack development. Leveraging our EdTech experience, we also provide strategic consulting to identify and support B2B and B2C opportunities.

Our goal

We're expanding features and refining the app through pilot programs and live classrooms. Our focus is on finalizing the path to full B2C launch with UI/UX improvements and coordinated marketing and sales, as well as ISO 27001 and GDPR compliance.

Technologies

JavaScript, TypeScript, Node.js, React, MUI, OpenAI API, AWS, EdLink SSO API

Don't take our word for it!

u2i **Clutch**

I've worked with firms in the past that are literally to the hour and to the dollar, and take advantage of the clients in terms of estimates for further work. u2i is opposite and it doesn't even feel like they're an outsourced team. They feel like they're my engineers, the only difference being the distance.

Alex Meis

Co-Founder, Kinvolved

SEE MORE ON CLUTCH

TALK TO US

cause brochures are terrible listeeners

If you'd like to learn more about u2i drop us a line at hello@u2i.com or grab Julia, our Recruitment Specialist, for a chat over a cup of coffee.

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