Tristrum Tuttle

Staff Software Engineer

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EDUCATION

UNIVERSITY OF PENNSYLVANIA — Philadelphia, PA
Master of Science in Engineering in Computer Science — May 2019
Relevant Coursework: Applied Machine Learning, Big Data Analytics, Networked Systems

UNIVERSITY OF PENNSYLVANIA — Philadelphia, PA
Bachelor of Science in Engineering in Computer Science — May 2019

WORK EXPERIENCE

PANORAMA EDUCATION (SaaS EdTech platform serving 2,000+ districts / 15 million students) — Boston, MA
Staff Software Engineer — Oct 2019 – Present
- Led organization of 3 cross-functional teams to build and maintain Panorama's Survey platform, reporting directly to VP of Engineering.
- Built and launched a new suite of tools to send pulse check-ins to 500+ districts, enabling real-time feedback from students and LLM powered theme analysis.
- Directed multi-team, multi-year migration of survey analytics from legacy AngularJS + custom data warehouse to Qlik Sense + VueJS, enabling modern data reports for 1,500 clients (25% of all K-12 students in the United States).
- Spearheaded development of AI-based sensitive response detection, adopted by 100+ districts within 1 month. Districts used this tool to analyze over 1 million survey responses in the first quarter after launch.
- Tech stack: Ruby on Rails, VueJS, TypeScript, PostgreSQL, AWS (SQS, S3, EKS, CloudFormation) — implemented event-sourced architecture, added observability with DataDog/Sentry, and automated CI/CD pipelines.

COTEACH.AI — Remote
Co-founder, CTO — Oct 2023 – Sept 2024
- Co-founded generative AI platform for teacher curriculum design; built full-stack MVP in React + AWS.
- Ran initial pilot program for cohort of K-12 math teachers in Texas, monitored usage and conducted user interviews to prioritize product enhancements.
- Secured Stanford HAI Tools Competition 2023–24 Catalyst Award and grant funding, enabling three-month pilot expansion.

CIBO TECHNOLOGIES — Boston, MA
Intern, Data Analytics — May 2018 – Aug 2018
- Implemented Bayesian statistical models in ScalaStan and extended open-source Scala visualization library EvilPlot using ScalaJS and PostgreSQL.

UNIVERSITY OF PENNSYLVANIA — Philadelphia, PA
Lecturer, CIS 195 Android Development — Aug 2018 – May 2019
- Rewrote accredited Android Development curriculum from Java to Kotlin; taught weekly lectures for 20+ students and managed three TAs.

ULTIMATE SOFTWARE (UKG) — Weston, FL
Intern, Research and Development — May 2017 – Aug 2017
- Prototyped potential new products for UltiPro using AngularJS, NodeJS and MongoDB.

SKILLS

Languages: JavaScript, TypeScript, Ruby, Python, Java, Kotlin, Scala, SQL
Frameworks: VueJS, ReactJS, NodeJS, Ruby on Rails, Android, Serverless (AWS Lambda, Amplify)
Infrastructure & Databases: PostgreSQL, MongoDB, Redis, AWS SQS, Docker, CloudFormation
Other: DataDog, Sentry, CI/CD, Event Sourcing, REST & GraphQL APIs, Figma, JIRA, Cursor, GitHub