

Tristrum Tuttle

Staff Software Engineer

Seattle, WA | +1 814-431-3238 | tristrumtuttle@gmail.com | github.com/triton11 | tristrumtuttle.com

EDUCATION

UNIVERSITY OF PENNSYLVANIA

Master of Science in Engineering in Computer Science

Relevant Coursework: Applied Machine Learning, Big Data Analytics, Networked Systems

Philadelphia, PA

May 2019

UNIVERSITY OF PENNSYLVANIA

Bachelor of Science in Engineering in Computer Science

Philadelphia, PA

May 2019

WORK EXPERIENCE

IRONCLAD

Staff Software Engineer, AI

Seattle, WA

Jan 2026 – present

PANORAMA EDUCATION (SaaS EdTech platform serving 2,000+ districts / 15 million students)

Staff Software Engineer

Boston, MA

Oct 2019 – Jan 2026

- 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.

COTEACH.AI

Co-founder, CTO

Remote

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

Intern, Data Analytics

Boston, MA

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

Lecturer, CIS 195 Android Development

Philadelphia, PA

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)

Intern, Research and Development

Weston, FL

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