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EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST

BS IN COMPUTER SCIENCE Feb 2017 | Amherst, MA Cum. GPA: 3.51 / 4.0 Major GPA: 3.77 / 4.0

GREENFIELD COMMUNITY COLLEGE

AS IN MECHANICAL ENGINEERING Aug 2012 | Greenfield, MA Cum. GPA: 3.93 / 4.0

LINKS

Personal: KaiGeffen.com
Github: KaiGeffen
LinkedIn: kai-geffen
X: @kai geffen

COURSEWORK

GRADUATE

Advanced Information Assurance Formal Language Theory Programming Languages

UNDERGRADUATE

Artificial Intelligence Computer Networks Operating Systems Social Issues in Computing

SKILLS

PROGRAMMING

Over 10,000 lines:

Typescript

Over 5,000 lines:

Pvthon

Over 1,000 lines:

OCaml • Rust • Ruby • C# • Java

Familiar:

Docker • PostgreSQL • Figma

EXPERIENCE

IRONMILL | CHIEF TECHNOLOGY OFFICER

Jun 2023 - Dec 2023 | New York, NY

- Lead a 6 person team to design and build a Zero-Knowledge Circuit package-manager MVP with 30 users
- Raised 2.6 million dollars in pre-seed to explore developer-tooling products in Zero-Knowledge cryptography
- Detailed our design goals in UML diagrams and specifications
- Split development into actionable tasks, set best practices, and provided feedback through PRs to meet project priorities and mentor junior developers
- Executed end-to-end development in Python and Typescript for both frontend and backend

CELESTIAL TCG | LEAD SOFTWARE ENGINEER

May 2021 - Feb 2023 | Boston, MA

- Managed a 5 person team to develop a real-time web-app game **available online** for both desktop and mobile
- Designed, built, and deployed the project, using Typescript for client-side code, Python for server-side, and Postgres for database management
- Use Websockets for connecting to the server, OAuth for account management, Git for version-control, DigitalOcean for cloud hosting, and Canvas for front-end visuals
- Designed mockups in Figma for mobile and desktop user flow

SOMALIVE | SENIOR SOFTWARE ENGINEER

Nov 2020 - May 2021 | Northampton, MA

- Designed, built, and tested an audio-mixing application which allowed us to raise 250 thousand dollars in seed funding
- Performance optimized the mixing of high-quality audio, improving the time from over a minute to down to 3 seconds on consumer hardware
- Researched and implemented the technology-stack and testing framework
- Implemented the project in Python with clean front-end, efficient and robust audio mixing, and intuitive data collection and analysis

ACHIEVEMENTS

- Presented on Virtual-Machine benchmarks at Microsoft's ZK event
- Lead a Zero-Knowledge **conference in NYC** with 30 attendees, 5 speakers
- Tutored math for a decade
- Scored 4th in the Northeast on a **national math exam**
- Served on a board of directors for a non-profit with 600 annual participants
- Managed a **website redesign** for Dance New England focused on accessibility for participants with diverse needs
- Had a summer internship at **Fiksu**, a mobile-marketing software company
- Had a year long internship at **Atalasoft**, an image-processing software company