Kaan Genc

Goes by Kaan Barmore-Genç

Phone: 614-549-2168
Address: Berkeley, IL 60163
Email: kaan@bgenc.net
Website: bgenc.net
LinkedIn: www.linkedin.com/in/kaan-barmore-genc
Projects: github.com/SeriousBug

SUMMARY

I'm a Software Engineer with 3 years experience, a Master's degree in Computer Science, and a strong track record of designing, building, and shipping high-quality software products. I'm proficient in web development with React, Next.js, TypeScript, AWS services, and infrastructure as code. I am passionate about creating scalable solutions that enhance user experience. I have proven ability to lead projects, communicate effectively with stakeholders, and collaborate within cross-functional teams.

SKILLS

Programming Languages: TypeScript, JavaScript, Python, Rust, C/C++
Web Technologies: React, Next.js, Svelte, TailwindCSS, Node.js, AWS (Lambda, DynamoDB, CDK)
Databases: PostgreSQL, DynamoDB, SQLite
Tools & Practices: Git, Docker, Infrastructure as Code, CI/CD, Agile Methodologies

EXPERIENCE

Software Engineer at Tailwind, June 2022 to Present

Tailwind is an AI-enhanced organic and paid marketing service that does your marketing for you.

- Revamped the signup flow and built an intuitive onboarding walkthrough system to enhance user experience.
- Architected and developed mission-critical systems, including media library and custom marketing scheduling.
- Migrated a crucial microservice from the Pinterest V3 to V5 API, ensuring seamless integration.
- Developed multiple serverless microservices for storing and processing user data using AWS Lambda, DynamoDB, and CDK.

- Improved website scraping capabilities for accurate AI-generated organic and paid marketing materials.
- Enhanced internal microservice tooling and libraries, fostering a more robust and maintainable codebase.

Software Engineer at Dendron, May 2021 to June 2022

Dendron is an advanced note taking and information management tool for engineers and programmers.

- Implemented features to improve information discoverability and UX, including task management, custom themes, and AB testing.
- Built backend and frontend components, communicated with users, and analyzed usage statistics.
- Utilized TypeScript, React, and Next.js for the software, and Amplitude and Sentry for telemetry and error monitoring.

Graduate Assistant at The Ohio State University, August 2017 to May 2021

The Ohio State University is a leading research-intensive public university.

- Taught the "Advanced C Programming" class for 2 years, preparing lecture materials and exams, and conducting classes with above department average student evaluations.
- Conducted research on dynamic program analysis for data race detection and persistent memory, resulting in publications at top journals.

EDUCATION

- **M.S. in Computer Science & Engineering**, at The Ohio State University, August 2017 to December 2021
- **B.Sc. in Software Engineering** at Izmir University of Economics, September 2013 to June 2017 (Graduated with **High Honors**)

PERSONAL PROJECTS

- **Bulgur Cloud**: User-friendly, self-hosted file storage and sharing platform focused on hassle-free setup and maintenance. Built with Rust (Actix-Web) backend and TypeScript (React, Next.js) frontend.
- **Rust Embed for Web**: Simplifies web asset management by embedding HTML, CSS, and JavaScript directly into Rust executables, ensuring deployment consistency and performance optimizations like pre-computed headers and compression.
- **live limit**: TypeScript library for managing the number of concurrent asynchronous operations, helping prevent server overload by limiting the number of in-flight network requests, database queries, or other async tasks.

AWARDS

- **2021 Graduate Research Award**, Ohio State University Department of Computer Science and Engineering
- **2020 Distinguished Artifact Reviewer**, OOPSLA (ACM Conference on Object-Oriented Programming, Systems, Languages & Applications)

PUBLICATIONS & AWARDS

- **PLDI 2020** - Crafty: Efficient, HTM-Compatible Persistent Transactions
- **OOPSLA 2019** - Dependence-Aware, Unbounded Sound Predictive Race Detection
- **PLDI 2020** - SmartTrack: Efficient Predictive Race Detection
- **PLDI 2018** - High-Coverage, Unbounded Sound Predictive Race Detection