

Kailani Chu

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Work Experience

GitHub

Remote

Software Engineer on Code Search

December 2024 - Present

- Improving GitHub's highly available, scalable code search engine for millions of developers on GitHub and powering semantic/vector search for Microsoft Copilot AI for millions more
- Assisted in productionizing embeddings code indexing infrastructure for LLMs, enabling free access to VSCode Copilot AI features

Software Engineer on Security Products

February 2022 - December 2024

- Spearheaded API and storage design for Vulnerability Reachability Analysis to statically analyze source code for known exploitable vulnerabilities, improving supply chain security for repositories across GitHub
- Implemented support for Private Registries in Dependabot Alerts, allowing customers to automatically resolve and update vulnerabilities within packages from private package registries
- Released GitHub Private Vulnerability Reporting to facilitate safe and confidential vulnerability disclosure, helping publish nearly 500 security advisories in 12 months
- Expanded GitHub Advisory Database coverage by adding new vulnerability sources and programming language ecosystems

Google

Sunnyvale, CA

Software Engineer on Google Payments

August 2021 - February 2022

- Developed features to improve Google Pay balance payment flows, reducing user declines
- Built and improved APIs to enable instant, safe, and consistent checkout experiences

Software Engineer on Cloud Platforms

July 2020 - August 2021

- Designed and implemented a software platform to detect and log instantaneous datacenter anomalies, enabling SREs to better root-cause transient outages
- Served as software lead across multiple datacenter power hardware projects to improve efficiency and stability and reduce total cost of ownership
- Created new firmware verification and testing systems, reducing regressions in production
- Interfaced with external teams and vendors to create software solutions for custom datacenter hardware

Software Engineering Intern on Cloud Platforms

May 2019 - August 2019

- Developed a Kythe source code indexer for SystemVerilog, enabling advanced code analysis for Google Code Search used by tens of thousands of engineers across Alphabet.
- Added support for advanced code insight features in Google internal IDEs
- Improved build and developer tooling to support Tensor Processing Unit (TPU) chip design efforts

Skills

Languages

Python, Rust, Go, C++, C, Ruby, Java, OCaml, JavaScript, SQL, KQL, Bash

Technologies

Ruby on Rails, MySQL8, CosmosDB, Kafka, Airflow, Redis, GraphQL, Linux, Git
Docker, Kubernetes, Redis, OpenAPI, Google Cloud Platform, Microsoft Azure

Education

Northeastern University

Boston, MA

College of Computer and Information Science

September 2016 - May 2020

B.S. in Computer Science, Magna Cum Laude, Dean's List

GPA: 3.8 / 4.0