

# Kailani Chu

(412) 736-9214 | 154 Waianuenue Ave #11082, Hilo, HI 96721 | me@kailani.io  
kailani.io | github.com/hawaiiigal | linkedin.com/in/kailanichu

## Work Experience

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### GitHub

Remote

*Software Engineer on Security Products*

*February 2022 - Present*

- Implemented support for Private Registries in Dependabot Alerts, allowing customers to automatically resolve and update vulnerabilities within packages from private package registries
- Spearheaded API and storage design on Vulnerability Reachability Analysis to identify critical exploitable vulnerabilities and improve supply chain security across repositories on GitHub
- Implemented and 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 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 indexer for SystemVerilog to enable advanced code insight features in developer IDEs
- Enhanced functionality for Code Search, actively used by tens of thousands of engineers across Alphabet

### Salsify

Boston, MA

*Software Engineer Co-op on Platform Foundations*

*January 2019 - May 2019*

- Designed and implemented standard error handling in the new customer-facing GraphQL Rails API, improving UX and developer productivity
- Completed implementation of multilingual support on the Salsify platform
- Assisted the design of complex product data modeling capabilities

## Skills

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### Languages

Ruby, Python, Java, C++, C, OCaml, JavaScript, HTML, CSS, SQL, KQL, Bash

### Technologies

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

## Education

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### 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*