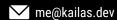
# KAILAS KRIVANKA

# SOFTWARE ENGINEER



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Bay Area, CA

#### ACADEMIC BACKGROUND

#### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

B.S. in Computer Science | 9/2018 - 6/2021

- UCSC College Scholars Honors Program
- MEP (MESA Engineering Program)
- Dean's Honors
- · ACM, CruzHacks

#### **PROJECTS**

## HttpServer | 6/2020 | C/Unix/Sockets/HTTP

- Developed a multithreaded Unix HTTP server in C.
- Used linux pthreads for multithreading allowing the server to handle multiple simultaneous requests.

### Open UV Map | 1/2020 | Node.js/Azure/Arduino

- Created prototype for system monitoring and visualizing UV data scaling to visualize many sensors.
- Used Arduino UV sensor to measure real-time data.

## HitchHike | 12/2019 | React Native/Node.js/AWS

- Built a cross-platform ride matching app for students.
- · Team practiced agile and scrum methodologies.
- Project used a custom database written in Node.js.

#### Questions for Change | 1/2019 | AWS/Flutter

- Wrote backend for Alexa skill and app on AWS Lambda.
- Developed an Alexa Skill and Google Assistant Action voice assistant game that donates money to charity.
- · Created mobile companion apps using Google's Flutter.

#### Flutter Chat | 12/2018 | Flutter/Dart/JS/Firebase

- · Developed cross-platform messaging app using Flutter.
- Used Firebase realtime databases as storage backend.

#### Pixel Sheet | 3/2018 | Node.js/HTML/OpenShift

- · Created Google Sheets extension for inserting images.
- Wrote RESTful backend that averages image color data across cells and web interface for managing options.

#### SKILLS

**Proficient** Java, C, JavaScript, Python, HTML,

Node.js, Android, Flutter, Unix, Docker,

Git, AWS, GCP, REST, Agile, OOP

**Familiar** C++, Go, Dart, PHP, TypeScript, Bash, CSS, React Native, Kubernetes, Jest,

Jenkins, Keras, Azure, Heroku,

MongoDB, Firebase

#### PROFESSIONAL BACKGROUND

#### SOFTWARE ENGINEERING INTERN

Box, Inc | 6/2020 - 9/2020

- Developed Box integration for G Suite deployed to ~300K users in partnership with Google Docs.
- Integration allowed users to browse Box content across
  G Suite as well as save files from Google Drive to Box.
- Joined the Partner Engineering team building product integrations that drive user retention and stickiness.
- Collaborated with teams across Box from Engineering, Product, and Design to plan and implement features.
- Utilized TypeScript and Jest to write unit testing with Git and Jenkins for continuous deployment.

#### UNDERGRADUATE RESEARCHER

Baskin School of Engineering | 1/2020 - Current

- Joined research project developing a new ephemeral storage framework for serverless applications.
- Collaborated with researchers at the Center for Research in Storage Systems at UC Santa Cruz.
- Setup AWS infrastructure and Kubernetes for benchmarking serverless workloads on AWS Lambda.
- Redesigned GG tool for running massively parallel tasks as Lambda functions to support new storage backend.

#### SOFTWARE ENGINEERING INTERN

Cisco Systems, Inc | 1/2020 - 6/2020

- Worked with Cisco Umbrella to develop a new fast and secure VPN prototype using the WireGuard protocol.
- Built tunnel manager handling incoming connections and routing traffic securly between many VPN servers.
- Research project designed to be integrated into existing Cisco Umbrella cloud delivered security infrastructure.
- Used Golang, Docker, and Bash to build WG VPN client.
- Led a team practicing agile and scrum methodologies.

# LAB INSTRUCTOR - CSE 101: ALGORITHMS

UC Santa Cruz | 10/2019 - Current

- Lab Instructor for CSE 101: Algorithms and ADTs.
- Taught Unix CLI, Graph Theory, and Data Structures.
- Led technical instruction in data structure programming in C, Big O algorithm complexity analysis.

#### **DIRECTOR OF INSTRUCTION**

Google DSC @ UC Santa Cruz | 10/2019 - 6/2020

- Served as the Director of Instruction for the UCSC chapter of the Google Developer Student Clubs.
- Led Cloud Study Jams and workshops teaching cloud development using GCP, VMs, Kubernetes, and ML.