

# Rohan Kapur

## Software Engineer

Graduated in 2023 from UC Santa Cruz with a degree in computer science and mathematics and a minor in computer engineering. Extensive experience with peer tutoring, full-stack web and mobile app dev using React/React-Native, Python programming, SQL database management, Google Cloud deployments, Docker container configuration, embedded and distributed systems programming. Open to full time work and research/teaching opportunities related to demonstrated interests.



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## 🏠 EDUCATION

### University of California, Santa Cruz

Santa Cruz, CA Sept. 2019 - Dec. 2023

B.S. in Computer Science

B.A. in Pure Mathematics

Minor in Computer Engineering

Relevant Coursework:

CSE 12 (Assembly Programming in MIPS)  
CSE 13S (Computer Systems C Programming)  
CSE 101 (Data structures and Algorithms in C/C++)  
CSE 120 (Computer Architecture)  
CSE 100 (Logic Design using Verilog)  
CSE 121 (Embedded Systems)  
CSE 114A (Functional Programming in Haskell)  
CSE 115A+D (Software Engineering Projects)  
CSE 138 (Distributed Systems)

## 💻 TECHNICAL SKILLS

### Programming Languages

Python, Bash, Java, (Java|Type)script, C/C++,  
RISC-V/MIPS Assembly, Haskell, Verilog HDL,  
(Postgre)SQL, R, Matlab

### Frameworks

React, React Native, Flask, FastAPI, Numpy,  
Matplotlib, ESLint, PHP Laravel, Vue.js, Qt, Agile  
development

### Platforms

Linux (Arch/Ubuntu/Fedora/etc), macOS, Google  
Cloud Platform, Firebase/Firestore, ARM ISA,  
ESP32/Arduino microcontrollers, Raspberry Pi

### Developer Tools

VSCode (devcontainers), L<sup>A</sup>T<sub>E</sub>X, Git, Github, Docker,  
Snowflake, Postman, Jira, Confluence, PyCharm,  
IntelliJ, Eclipse, Vim, Emacs, Nano

### Communication

Slack, Discord, Zulip, Microsoft Teams, Zoom, Google  
Meet

## 👛 WORK EXPERIENCE

### Undergraduate Student Tutor

University of California, Santa Cruz

Santa Cruz, CA Jan. 2021 - Dec. 2023

Trained and worked as a peer tutor for several lower and upper-division computer science and math courses with the campus Learning Support Services and the Baskin Engineering school while managing a full-time student workload.

### Software Engineering Intern

F5 Networks

Seattle, WA

June 2022 - Sept. 2022

Worked at F5 corporate office in Seattle, WA during summer 2022 with internal data management team to aid in SaaS transition for BIG-IP product line. Facilitated transition of internal data from on-site databases to cloud-hosted database servers using Snowflake, with continuous deployment managed using Docker containers deployed in GitHub workflows. Worked with Jira to manage Agile workflow and Confluence for documentation.

## ✂️ PROJECTS

### Choreographic Programming Summer Research

Typescript, Node.js, Git/Github, ESLint

Summer 2023

Worked with UCSC grad student to develop novel choreographic programming library in Typescript for facilitating development of deadlock-free distributed system programs. Mainly helped write custom ESLint linting rules for the library, as well as using the library to implement RSA key exchange.

### Cross-platform Restroom-finding Mobile App

React Native, Firebase/Firestore, Github, Git, Agile

Fall 2022

Worked with a five-student team in CSE 115A to create cross-platform mobile app using React Native that crowd-sources and lets users locate/rate restrooms nearby. Followed Agile practices over 6 sprint cycles with weekly scrum and stand-up meetings. Primarily helped develop the front-end and necessary documentation.