

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^AT_EX, 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.