

Krishna Kumar Pandian

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Education

Bachelor of Science: Computer Engineering

September 2018 - June 2022

University of California, Santa Cruz

- Cumulative GPA: 3.85
 - Coursework: Advanced Computer Networks, Principles of Computer Systems, Intro to Algorithms, Intro to Databases, Network Programming, Software Engineering, Distributed Systems, Logic Design, Embedded System Design
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Experience

Incoming Software Engineering Intern

September 2021 - December 2021

Arista Networks

- Working on Routing Protocols Team (Scaling Data Centers using Algorithms to ensure packets arrive efficiently)

Software Engineering Intern

June 2021 - August 2021

JPMorgan Chase & Co.

- Created letter automation tool for consumer lending technology team using Java, Selenium, and Cucumber
- Reduced automation 1.5 hrs per letter for 12 unique letters which reduces manual work by 2 days per new test
- Participated in daily scrum meetings and maintained team workflow by using Jira

Software Developer

June 2020 - April 2021

VAMA

- Implemented software to interact with ESSENT, an RTL simulator that outputs simulation data of CPU
- Designed interfaces in C++ for 2 different open-source tools riscv-mini and DinoCPU
- Automated unit testing with shell scripts to produce a 5x speedup using bash and C++

Frontend Web Developer

March 2020 - March 2021

Tech4Good

- Produced dynamic UI components and interfaces for frontend applications
- Collaborated with user experience team to ensure a simple user interface
- Developed UI and containers utilizing AngularJS, Node.js, Typescript, HTML, SCSS

CSE Tutor and Grader

September 2019 - March 2021

Baskin School of Engineering

- Debugged students MIPS code and Logic Design, and made optimized solutions for lower division Computer Systems and Assembly Language course
 - Developed solutions and graded homework and exams for upper division Computer Architecture course
 - Handled tutoring for 40+ students and grading for 250+ students
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Activities

Software Engineering Lead

April 2019 - Present

CruzHacks

- Hosted UCSC's annual hackathon, bringing 600+ students across the nation for one of CA's largest 36 hour hackathon
- Developing secure web application with authentication with React, Typescript, firebase functions, and Auth0
- Developed integration pipeline, standards, linters, and automated testing with Jest, Supertest, Github Actions, and Node
- Formerly Logistics Operations Manager

Vice President of Engineering

April 2019 - April 2021

Society of Asian Scientists and Engineers

- Organization focused around challenging Asian stereotypes and provided opportunities to learn industry skills
 - Hosted technical and non-technical workshops and organized speaker events for chapter
 - Provided Technical Workshops on Git, AWS, Python, and React
 - Formerly Treasurer, managed chapter funding and raised over \$5000 through grants and fundraising
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Technical Skills

Languages: Python, C++, C, Typescript, JavaScript, Go, Java, Bash

Technologies: Git, Docker, Unix, Linux, Firebase, AWS, Heroku, MongoDB, SQL, NoSQL, REST, CI/CD, Agile, Scrum

Frameworks: Express.js, React, Mux, Flask, Angular