

Mitchell Elliott

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📍 Santa Cruz, CA 95060

EDUCATION

University of California, Santa Cruz <i>M.S. Computer Science</i>	Sept. 2022 – Dec. 2024 GPA: 3.74
University of California, Santa Cruz <i>B.S. Computer Science</i>	Sept. 2018 – June 2022 GPA: 3.61

EXPERIENCE

UC Santa Cruz <i>Teaching Assistant</i>	Jan. 2023 – June 2023, Sept. 2023 – Dec. 2024 Santa Cruz, CA
<ul style="list-style-type: none">• 6x Head Teaching Assistant for CSE 130: Principles of Computer System Design (W23, S23, F23, W24, S24, F24)• Reviewed course material and assisted students with programming assignments and exam prep• Conducted group discussion sections, created assignments and quizzes, proctored exams, and managed course infrastructure• Created and maintained an automated CI/CD pipeline for grading programming assignments on GitLab	
Perfectly Snug <i>Software Engineer Intern</i>	July 2023 – Sept. 2023 Richmond, BC, Canada
<ul style="list-style-type: none">• Developed a custom MRP system with BOM management using Python, MySQL, Node.js, and React• Automated manufacturing process management and part tracking• Developed dashboards and reports using Shopify API data to optimize daily build plans• Integrated product testing software into a mobile app to streamline the build procedure	
ParkourSC, Inc. <i>DevOps Engineer Intern</i>	July 2022 – Sept. 2022 Remote
<ul style="list-style-type: none">• Redesigned and implemented new alert condition policies for several Kubernetes clusters in New Relic• Eliminated false-positive alert tickets, which increased engineer productivity and allowed for critical alerts to have higher visibility• Created a Jira automation to mute all alerts for a cluster during an upgrade using the New Relic NerdGraph API• Analyzed log files, viewed alert incident data, and wrote NRQL queries to investigate cluster outages	

PROJECTS

CarbonStream (UCSC M.S. Project)	Jan. 2024 - Present
<ul style="list-style-type: none">• Conducted a comprehensive lifecycle analysis of storage technologies to evaluate their environmental impact• Developed a decision-making framework integrating cost, performance, and sustainability metrics to optimize data storage• Identified opportunities for hybrid storage architectures that improved energy efficiency by leveraging workload-specific strategies	
Multithreaded RPC Server	Oct. 2020 - Dec. 2020
<ul style="list-style-type: none">• Implemented a multithreaded remote procedure call (RPC) server to perform arithmetic operations and file services in C• Client requests and server responses were sent in network byte order using a custom protocol• Server was scalable and supported recursive name resolution for variables, persistent key-value pairs, and fault tolerance	

SKILLS

General: DevOps, CI/CD, UI/UX, CloudOps, Full Stack Development, Systems Programming, IT, Data Analytics, Agile, Scrum
Languages: Python, C, C++, Java, JavaScript, Bash, SQL, HTML, Perl, JSON, YAML, Assembly, Go
Libraries and Frameworks: React, Bottle, Bulma.css, Flask, Py4Web, Vue.js, NumPy, pandas
Applications and Tools: Docker, Kubernetes, Node.js, Word, Excel, PowerPoint, Power Apps, Power Bi, SSMS, MySQL Workbench, Okta, Auth0, Apache, Nginx, Jira, New Relic, Jenkins, GitHub, GitLab, Sourcetree, Kafka, WordPress, VirtualBox, Ghidra, CMake
Databases: MySQL, PostgreSQL, SQL Server, SQLite, Redis, Cassandra, Elasticsearch, MongoDB
IDEs: Visual Studio, VSCode, Eclipse, Xcode, PyCharm, CLion, Conda, Matlab, Vim
AWS: EC2, RDS, S3, Boto3, API Gateway, Lambda, VPC, IAM, Elastic Beanstalk, Lightsail, ECS, EKS, ELB, Route 53, VPN, ACM
Operating Systems: macOS, Windows, Linux: {Ubuntu, CentOS, Kali Linux, Fedora}, FreeBSD, Raspberry Pi OS