

JACK LEVALLEY

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EDUCATION

University of California, Santa Cruz

September 2021 - June 2025

Bachelor of Science, Computer Engineering | GPA: 3.71 – Dean's Honor

Santa Cruz, CA

Relevant Coursework: Artificial Intelligence, Computer Networks, Data Structures and Algorithms, Computer Systems Design, Computer Architecture, Parallel Programming, Software Engineering, Embedded Systems, Signals and Systems

EXPERIENCE

Maxar Space Systems

June 2024 - September 2024

Software Engineer System Administrator Intern

San Jose, CA

- Built Python scripts to automate updates and monitor system health metrics for the flight software lab machines
- Developed a dynamic Python inventory software for system admins, producing JSON files for Ansible integration
- Implemented a Prometheus/Grafana monitoring system across all flight software lab machines, significantly enhancing system monitoring and reducing administrator response time by **99.93%**
- Utilized OpenSCAP to identify system vulnerabilities and built RPM packages for our telemetry software

PROJECTS

Slugistics | React, Express.js, JavaScript, AWS (Lightsail, API Gateway, ACM), SQLite, Python

- Founded a full-stack web app to share exclusive course data with students. Built with React and deployed on Cloudflare, consistently reaching **5000+ unique monthly visitors**
- Garnered recognition from the Computer Science and Engineering (CSE) department, along with monetary compensation to support its continued development and expansion
- Collaborated with Professor James E. Davis to generate detailed reports, assisting department faculty with course distribution evaluation
- Established an Express server on AWS Lightsail, utilizing SQLite for data storage and Python for web scraping

Keysight Technologies Desktop Applications aaS | C#, Boxstarter

- Developed a plugin for Keysight's Test Automation software to remotely operate desktop applications in the cloud
- Leveraged C# and Powershell to implement SCPI command execution and to register virtual machines
- Packaged desktop applications with Boxstarter, eliminating the need for manual setup and ensuring consistency
- Collaborated in a team of 5 students under a scrum framework with Jira, with mentorship from 4 Keysight engineers

Multipass Manager | Typescript, Ubuntu, Virtual Machines

- Developed a Visual Studio Code extension with **1000+ active users** for Canonical's Multipass software
- Enabled seamless management of Multipass virtual machines directly within the IDE to enhance productivity
- Streamlined remote SSH environment setup with a single-click process, optimizing development workflows

BVS AI | Python, Huggingface, Scikit-learn

- Developed an AI solution using Sentence-BERT (all-MiniLM-L6-v2) to analyze SEC 10-Q filings for extracting a company's relevant key drivers and corporate objectives with **99% accuracy**
- Implemented an NLP pipeline to generate embeddings, followed by cosine similarity for matching document chunks with predefined categories, identifying a company's priorities at an executive level
- Automated the retrieval of SEC 10-Q filings using the SEC Edgar REST API and parsing of the retrieved documents

TECHNICAL SKILLS

Programming Languages: Python, C, C++, SQL, HTML/CSS, RISC-V, JavaScript, MATLAB, Java

Frameworks and Technologies: Ansible, React, Flask, GraphQL, Selenium, REST APIs, Prometheus, Grafana, Linux, CI/CD

Tools: Azure, Docker, Power BI, Agile, Git, MS Office Suite, MS Project, SQL, Unix, Sharepoint, Kubernetes

LEADERSHIP AND VOLUNTEERING ACTIVITIES

- Team Captain of UCSC Valorant Esports Team, 2021 - 2023. 3x LAN Event Winner with \$1225 in earnings
- UCSC Circle K Volunteering, UCSC Ballroom Dancing, Santa Cruz Artificial Intelligence Club
- Hobbies include cooking, PC building, and soccer