JAKOB ESPERSON

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EXPERIENCE

DevOps Engineering Intern   June 2025 – Present
Western Digital   *Roseville, CA*
- Assisting firmware development and testing teams in designing, developing, and automating build pipelines and tools with Jenkins, Linux and Powershell scripting, etc.
- Constructing reservation system for 50+ hardware resources on web with Django and on-resource with Ansible to improve efficiency of hardware allocation between teams by 30%+
- Restructuring existing testing tools and frameworks for containerization with Docker and Jenkins to improve portability and consistency across testing environments

Junior DevOps Engineer   Sep. 2024 – Apr. 2025
CMG Financial   *Remote*
- Continued development of web portal to create sandbox environments and created plugins/webhooks from scratch to connect with services such as PagerDuty
- Supported peers in vetting Dockerfiles, creating Terraform pipelines, and allocating resources in Azure DevOps

DevOps Engineering Intern   June 2024 – Sep. 2024
CMG Financial   *Roseville, CA*
- Developed web portal for DevOps team to streamline feature requests using Angular/Flask and Microsoft Azure APIs to improve feature completion rate by 20%+
- Configured and supported 1000+ standard laptops using Powershell to ensure devices stay up-to-date

PROJECTS

DevOps Lab | *Bash, Docker, Jenkins, Kubernetes, Terraform*   Apr. 2025 – Present
- Personal development environment for learning and practicing DevOps tools and techniques
- Created CI/CD pipeline using Jenkins, Docker, and Nginx to automate build and deployment for personal website with analytics graphing via Grafana and Prometheus
- Working up to provisioning and managing infrastructure for other applications using Terraform and Kubernetes

BroncoNest | *Flutter, Flask, Firebase, AI RAG, Figma*   Feb. 2025 – Apr. 2025
- Developed a full-stack mobile application using Flask serving a REST API with Flutter frontend for college housing
- Implemented Firebase Authentication to manage user access and Firestore for database storage
- Hosted an AI RAG model using Llama, Jira, and Pinecone to provide personalized responses to user dorm queries
- Collaborated with a team of 3 to present to 5 industry professionals for senior design capstone project

JetStream | *React, deck.gl, OAuth, APIs, Mapping, AWS x INRIX Hack Seattle Finalist*   Dec. 2023
- Used React and deck.gl to create full itinerary plans from start to finish for business trips and personal flights, with an interactive 3D map to display points of interest and flight paths based on user input
- Utilized 7 external APIs, including INRIX traffic and Flight price APIs, to gather data including flight paths, driving / public transit routing and costs, and interactive map elements hosted on AWS EC2

EDUCATION

Santa Clara University   Santa Clara, CA
Bachelor of Science in Computer Science and Engineering   *Sep. 2022 – June 2026*
- Relevant Coursework: Advanced Data Structures, Computer Architecture, Computer Networks, Object-Oriented Programming, Theory of Algorithms, Operating Systems
- Organizations: Association for Computing Machinery President, Theta Tau Engineering Fraternity Professional Development Chair

SKILLS

Languages: C/C++, Python, HTML/CSS, JavaScript/TypeScript, Dart, Terraform, Bash, Powershell, YAML, Groovy
Frameworks: Frontend – React, Angular, Vue, TailwindCSS, Flutter, Django | Backend – Firebase, Node.js, Nginx, Flask, Express, REST APIs, Sqlite, PostgreSQL
Tools: Git, GitHub, Docker, Figma, Postman, CI/CD, AWS, EC2, S3, Sagemaker, Bedrock, Azure, AI RAG, Linux/Unix, Windows, Azure DevOps, Jenkins, Ansible
Interests: UI/UX, Computer Vision, Video Game Design, Computer Hardware, Video Editing, Baseball