

Joshua Li

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EDUCATION

University of California Santa Cruz

Santa Cruz, CA

Bachelor of Science in Computer Science, Minor in Mathematics GPA: 3.7/4.0

Expected June 2027

- Relevant coursework: Data Structures and Algorithms, Database Management Systems, Distributed Systems, Computer Architecture, Computer Networks, C Programming, Algorithm Analysis

EXPERIENCE

Amazon Web Services

New York City, NY

Software Development Engineer Intern - AWS Q Business

June 2025 – Sep. 2025

- Replaced 60+hr/wk manual script with automated Java workflow that displays abstracted resource consumption metrics.
- Designed and built the workflow with Step Functions, Lambda, and DynamoDB to collect and aggregate data at scale.
- Stored data in S3 and ingested with Amazon QuickSight, generating weekly dashboards of metrics across 30+ regions.
- Implemented infrastructure as code with AWS CloudFormation, maintained through automated CI/CD pipelines.
- Led a design review with 20+ senior engineers, presenting my solution and defending key architectural decisions.

Rimini Street

Remote

Software Engineering Intern

Sep. 2024 – December 2024

- Built an automated pipeline with engineers to summarize lengthy sales emails, reducing thread length by 400%.
- Fine-tuned advanced NLP models (BART, T5) to generate factually accurate, hallucination-free abstractive summaries.
- Preprocessed 10k+ emails from a Snowflake database into structured model inputs with Pandas and Numpy.

University of California Santa Cruz

Santa Cruz, CA

Undergraduate Researcher - Razvan Marinesu Lab

Sep. 2024 – May 2025

- Collaborated on boosting the accuracy of MRI brain maps by 10% by optimizing generative imaging architectures.
- Developed Python and Bash scripts to surface metrics and optimize experimentation, improving execution speed by 30%.
- Ensured reproducibility by containerizing pipelines with Git, Docker, and Kubernetes in cloud environments.

Agile Catalyst

Remote

Computer Vision Engineer Intern

June 2024 - Sep. 2024

- Developed an unsupervised computer vision pipeline for hockey footage, improving player recognition accuracy by 58%.
- Applied image normalization, thresholding, and masking to isolate players and enhance feature extraction for clustering.
- Built a YOLOv5 + K-Means system automating team classification and annotation, reducing manual labeling by 80%.

Tech4Good

Santa Cruz, CA

Software Engineering Intern

June 2023 - June 2024

- Revamped the Tech4Good site's UI for 300+ users by designing web components to assist students in finding resources.
- Designed and implemented 10+ web components using Angular, JavaScript, HTML, and CSS for the Annota website.

SELECTED PROJECTS

Job Tracker – AI-Powered Email Workflow System | Go, React, PostgreSQL, Gmail API, Llama/vLLM

- Built an end-to-end Gmail integration using LLMs to classify 1K+ job-related emails with 92% accuracy.
- Automated rejection-to-application mapping and cut classification latency by 45% via optimized Pub/Sub pipelines.
- Developed Go APIs and React UI integrated with AI inference, enabling real-time automation and multi-user reliability.

Semi-Supervised Image Classification Model | Python, PyTorch, scikit-learn, Pandas, Numpy

- Built an image classification model using Pytorch achieving 53.3% accuracy on 10k labeled and 23k unlabeled images.
- Improved model efficiency by applying Batch Normalization and hyperparameter tuning, reducing training time and accelerating inference speed; enhanced validation accuracy by 9% using semi-supervised techniques with Entropy Regularization and Pseudo Labeling.

SKILLS

Languages: Python, C++, Java, C, SQL, Go, Rust, JavaScript, Haskell, TypeScript

Tools: React, Node.js, Flask, Express, AWS (EC2, S3, Lambda, DynamoDB, Cloudwatch, Step Functions, Cloudformation), GCP, Azure, Git, Docker, Kubernetes, JUnit, Postman, Apache Spark, Django, PostgreSQL, MySQL, Snowflake, Firebase

Concepts: Full Stack, Backend, Software Engineering, Distributed Systems, Databases, Web Frameworks, API, Concurrency & Multithreading, Load Balancing, Agentic AI, Machine Learning, Deep Learning, Computer Vision, LLM, MCP