

# 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 December 2026*

- Relevant coursework: Distributed Systems, Data Structures and Algorithms, Parallel and Concurrent Programming

## EXPERIENCE

### Amazon Web Services

New York City, NY

*Software Development Engineer Intern*

*June 2025 – September 2025*

- Replaced 60+hr/wk script with automated serverless Java workflow that displays abstracted resource metrics.
- Built the workflow with Step Functions, Lambda, and DynamoDB to collect and aggregate 1M+ data entries.
- Stored data in S3 and ingested with Amazon QuickSight, generating weekly dashboards 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 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 Marinescu Lab*

*Sep. 2024 – May 2025*

- Collaborated on boosting the accuracy of MRI brain maps by 10% through deep learning generative models.
- Developed Python scripts to surface metrics and optimize experimentation, improving iteration 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*

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

## PROJECTS

### Semi-Supervised Image Classification Model | *Python, PyTorch, scikit-learn, Pandas, Numpy* | [GitHub](#)

- Trained an image classification model in Pytorch with 53.3% accuracy on 10k labeled + 23k unlabeled images.
- Optimized model training time by 20% by applying Batch Normalization and hyperparameter tuning.
- Enhanced validation accuracy by 9% using semi-supervised techniques(Entropy Regularization + Pseudo Labeling)

### Calendar Social Media Web Application | *JavaScript, React, Express.js, PostgreSQL, Node.js, Django* | [GitHub](#)

- Developed a full-stack social platform enabling dynamic user interaction and real-time content sharing.
- Built a Bootstrap-React frontend with Node.js/Express backend, delivering performant, responsive user experiences.
- Implemented RESTful APIs with JWT authentication, OAuth integration, and PostgreSQL database management.

## TECHNICAL SKILLS

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

**Tools:** React.js, Node.js, Express, AWS (EC2, S3, Lambda, DynamoDB, CloudWatch, EKS, Step Functions, API Gateway, CloudFormation), Linux, Git, Docker, Kubernetes, TensorFlow, PyTorch, Vue, Postman, Amazon Q (MCP), Flask, Django, PostgreSQL, GCP, Figma, scikit-learn, Matplotlib, MySQL, Linux

**Concepts:** Full-Stack Development, Backend Development, Distributed Systems, Cloud-Native Development, Web Development, REST APIs, GraphQL, CI/CD, Agile Development, Scalable System Design, RAG, Scrum, TCP/IP Networking, LLMs