

# Joshua Li

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## EDUCATION

### University of California Santa Cruz

Santa Cruz, CA

*Bachelor of Science in Computer Science, Minor in Mathematics*

*June 2027*

- Relevant coursework: Data Structures and Algorithms, Distributed Systems, Computer Architecture, Machine Learning

## EXPERIENCE

### Amazon Web Services

New York City, NY

*Software Development Engineer Intern*

*June 2025 – September 2025*

- Designed a serverless, scalable workflow in Java using AWS Lambda, DynamoDB, S3, and Step Functions, exposing hidden metrics that uncovered inefficiencies and improved system performance.
- Automated a weekly workflow with EventBridge that replaced a 3-hour manual task and automatically produced Amazon QuickSight dashboards; built infrastructure with CloudFormation/CDK and managed deployments through CI/CD pipelines.

### Rimini Street

Remote

*Software Engineering Intern*

*Sep. 2024 – December 2024*

- Fine-tuned advanced NLP models (BART, T5) to generate factually accurate, hallucination-free abstractive summaries; streamlined outputs into purpose-driven summaries validated through stakeholder feedback and showcased with a high-fidelity Figma prototype.
- Pulled 10k+ emails from a Snowflake database and converted raw data into structured inputs with Pandas and Numpy.

### University of California Santa Cruz

Santa Cruz, CA

*Undergraduate Researcher*

*Sep. 2024 – May 2025*

- Collaborated with Professor Razvan Marinescu on the design, training, and evaluation of DCGAN and CycleGAN architectures; optimized PyTorch workflows through performance tuning and model refactoring, boosting MRI map generation accuracy.
- Ensured reproducibility and scalability by containerizing pipelines with Git, Docker, and Kubernetes, streamlining collaboration and deployment in cloud/HPC environments.

### Tech4Good

Santa Cruz, CA

*Software Engineer Intern*

*June 2023 - June 2024*

- Designed and implemented web components with Angular, JavaScript, HTML, and CSS to revamp the Annota website's UI, adding dynamic features that helped 300+ students access career resources.

## PROJECTS

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

[GitHub](#)

- Built an ML pipeline in Python using PyTorch for training a ResNet-18 model and NumPy/Pandas for data preprocessing, achieving 53.3% base accuracy on 9,854 labeled and 22,995 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.

### Calendar Social Media Web Application | *JavaScript, React, Express.js, PostgreSQL, Node.js, HTML, CSS*

[GitHub](#)

- Built a dynamic multi-page social platform with a Bootstrap-powered React frontend and Node.js/Express backend; implemented RESTful APIs with JWT authentication and OAuth integration to ensure secure account management.
- Designed **PostgreSQL** database schema with pgcron for scheduled tasks (notifications, data cleanup), improving reliability and maintainability.

### Chess Analyzer Chrome Extension | *JavaScript, Firebase, Chrome APIs, HTML, CSS*

[GitHub](#)

- Built a Chrome extension with JavaScript and Firebase to scrape, analyze, and store chess games via the Chess.com API.
- Enabled free post-game insights by converting games for Lichess analysis, avoiding Chess.com's analysis paywall.

## SKILLS

**Technical Skills:** Java, Python, C, C++, SQL, JavaScript, TypeScript, Golang, Bash, React, Node.js, Flask, Express.js, PostgreSQL, Firebase, SQLite, Vite, DynamoDB, Lambda, Step Functions, S3, Quicksight, EventBridge, Cloudwatch, Snowflake, Git, Docker, Kubernetes, Google Cloud Platform

**AI/ML Skills:** Langchain, Machine Learning, Deep Learning, PyTorch, TensorFlow, scikit-learn, YOLOv5, Llama, BART, T5