

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, maintained clean and scalable code with unit testing, 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.

Agile Calayst

Remote

Computer Vision Engineer Intern

June 2023 - June 2024

- Developed an automated play annotation system for team-based sports, streamlining analysis and reducing manual effort by improving player detection and team recognition accuracy by 58%.
- Designed and implemented a computer vision pipeline in Python using PyTorch, OpenCV, YOLOv5, and MOTA Neural Solver, enabling scalable and reliable multi-object tracking.

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.

SKILLS

Technical Skills: Java, Python, C, C++, SQL, JavaScript, TypeScript, Golang, Bash, PostgreSQL, Firebase, SQLite, DynamoDB, MongoDB, Snowflake

Tools: React, Node.js, Flask, Express.js, Vite, AWS (Lambda, Step Functions, S3, Quicksight, EventBridge, CloudWatch), Google Cloud Platform, Azure, Git, Docker, Kubernetes, JUnit, Postman, Django

AI/ML Skills: PyTorch, scikit-learn, LangChain, Machine Learning, Deep Learning, YOLOv5, Llama, BART, T5, OpenCV