

# JOSHUA LI

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## EDUCATION

### University of California Santa Cruz

Santa Cruz, CA

Bachelor of Science in Computer Science, Minor in Mathematics

Expected June 2026

• **Relevant Coursework:** Data Structures and Algorithms, Distributed Systems, Computer Architecture, Computer Networks, Machine Learning, C Programming, Computer Vision, Advanced Linear Algebra, Intro to Probability and Statistics

## WORK EXPERIENCE

### Amazon Web Services (AWS)

New York City, NY

Software Development Engineer Intern

Jun 2025 - Sep 2025

- Architected a scalable workflow using **AWS DynamoDBs, Lambdas, and Step Functions**, cutting operational overhead by **60%**
- Implemented a weekly automated **Java** pipeline to extract and aggregate service data to reveal crucial time series trends
- Optimized design and deployed an **S3** bucket to store telemetry data to generate interactive Amazon **QuickSight** dashboards
- Established and configured custom **IAM** policies to ensure secure permissions for cross-region and cross-account executions

### Rimini Street

Remote

Software Engineer Intern

Sep 2024 – Dec 2024

- Engineered and deployed a **Python** email summarization pipeline in **Jupyter** that reduced thread length by **400%**
- Pulled **10k+ emails** from a **Snowflake** database and preprocessed raw data into structured inputs with **Pandas** and **Numpy**
- Fine-tuned advanced NLP models (**BART, T5**) to generate factually accurate, hallucination-free abstractive summaries
- Integrated outputs into **Qlik** dashboards via high-fidelity **Figma** prototypes to streamline stakeholder feedback loops

### Marinescu Lab

Santa Cruz, CA

Undergraduate Student Researcher

Sep 2024 – June 2025

- Collaborated on the design, training, and evaluation of **DCGAN** and **CycleGAN** architectures with Professor Razvan Marinescu
- 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** in cloud environments

### Tech4Good

Santa Cruz, CA

Software Engineer Intern

Jun 2023 – Jun 2024

- Designed web components using **Angular**, **JavaScript**, **HTML**, and **CSS** for the Annota website, revamping the site's UI
- Designed dynamic features that helped over **300** students find resources to succeed in pursuit of their careers

## SELECTED PROJECTS

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

- Trained a **ResNet-18** Deep Learning model on 9,854 labeled and 22,995 unlabeled images, achieving a **53.3%** base accuracy
- **Built an ML pipeline**, handling model training with **Python** using **PyTorch** and data preprocessing with **Numpy** and **Pandas**
- Improved model efficiency with **Batch Normalization** and hyperparameter tuning, cutting training time and boosting inference speed
- Applied Semi-Supervised Machine Learning Entropy Regularization and Pseudo Labeling, boosting validation accuracy by **9%**

### Calendar Social Media Web Application | Javascript, React, Express.js, PostgreSQL, Node.js, Django, Bootstrap

- Built a dynamic multi-page social platform with a **Bootstrap** powered **React** frontend and a **NodeJS** and **Express** backend
- Implemented **RESTful APIs** with **JWT** authentication and **OAuth** integration, ensuring secure account management
- Designed **PostgreSQL** database schema supporting user profiles, posts, comments, friends, and account activity

### Chess Analysis Chrome Extension | Javascript, Firebase, HTML, CSS

- Chrome extension built with **Javascript** and **Firebase** to scrape, analyze, and store chess games from Chess.com API

## SKILLS

- **Languages:** Java, Python, C, C++, SQL, JavaScript, TypeScript, Go, Golang, HTML, CSS, Bash
- **Technologies:** React, Node.js, Flask, Express.js, Pytorch, Tensorflow, AWS, PostgreSQL, Firebase, SQLite, Tensorflow, Vite
- **Tools:** Git, Amazon Web Services, Postgres, Kubernetes, Google Cloud Platform, Figma, Docker, Jupyter
- **Concepts:** Software Engineering, Distributed Systems, Frontend, Backend, Data Analysis, Machine Learning