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 2026
  − Relevant coursework: Data Structures and Algorithms, Distributed Systems, Computer Architecture, Computer Networks, Machine Learning, C Programming, Computer Vision

EXPERIENCE

Amazon Web Services   New York City, NY
Software Development Engineer Intern   June 2025 – September 2025
  − Designed and implemented an automated Java pipeline to extract and aggregate OpenSearch/AES cluster metadata, boosting developer efficiency by **300%** and enabling faster root-cause analysis.
  − Architected and deployed scalable workflows using **AWS DynamoDB, Lambda, and Step Functions**, cutting operational overhead by **60%** while ensuring high reliability.
  − Prototyped and deployed an optimized S3 schema to store telemetry data, powering interactive Amazon QuickSight dashboards for real-time insights across engineering teams.

Rimini Street   Remote
Software Engineering Intern   Sep. 2024 – December 2024
  − Engineered and deployed email summarization pipeline by preprocessing and transforming 10k+ emails with Pandas in Jupyter, reducing thread length by **5×** and boosting sales efficiency.
  − Fine-tuned advanced abstractive NLP models (**BART, T5**) to generate factually accurate, hallucination-free summaries tailored for real-world business communication.
  − Developed a Python data pipeline for automated preprocessing and model ingestion, integrating outputs into Qlik dashboards via high-fidelity **Figma prototypes** to streamline stakeholder feedback loops.

University of California Santa Cruz   Santa Cruz, CA
Undergraduate Student Researcher   Sep. 2024 – May 2024
  − Collaborated on the design, training, and evaluation of **DCGAN** and **CycleGAN** architectures, boosting MRI probability map generation accuracy and advancing the lab's medical imaging pipeline.
  − Optimized **Pytorch** workflows through performance tuning and model refactoring, cutting training runtime and accelerating inference efficiency across experiments.
  − Ensured reproducibility and scalability by containerizing pipelines with **Git**, **Docker**, and **Kubernetes**, streamlining collaboration and deployment in cloud/HPC environments.

PROJECTS

Calendar Social Media Web Application | *Javascript, React, Express.js, PostgreSQL, Node.js*   GitHub
  − Built a dynamic multi-page social platform with React/Bootstrap, supporting user profiles, posts, comments, and activity feeds with responsive design.
  − Implemented RESTful APIs in **Node.js**/**Express** with JWT authentication and OAuth integration, ensuring secure and seamless 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*   GitHub
  − Developed Chrome extension that scrapes Chess.com live games and converts them into interactive board analysis without user intervention.
  − Implemented scraping, automation, and API handling to capture real-time board states, integrating results directly into the extension UI.
  − Integrated Firebase backend for authentication, secure account creation, and persistent storage of personalized game histories.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL, JavaScript, TypeScript, Golang, HTML, CSS
Tools & Frameworks: React, Node.js, Flask, Express.js, Pytorch, Tensorflow, AWS, PostgreSQL, Firebase
Developer Tools: Git, Docker, AWS, Kubernetes, Google Cloud Platform