

Jayson Sao

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Objective: position in backend software development for a full-time position

Education

Boston University (College of Arts & Sciences)

Boston, MA

B.A. in Computer Science, Minor in Economics, Data Science, Math

Expected May 2026

GPA: 3.70/4.00 | 35 ACT | 5x Dean's List | Varsity Men's Rugby Captain

Relevant Coursework: DS & OOP, Machine Learning, Distributed Systems, Complex Analysis, Artificial Intelligence & HCI (grad), AI-Agents, Linear Algebra, Computer Systems, Discrete Math, Differential Equations, Information Security, Probability & Stats

Technical Skills

Languages: C/C++, Go, Java, Python, Rust, Bash, PHP, Perl

Frameworks: Django, React, Node, LangChain, Flask, Vite

Cloud: AWS, Docker, Jenkins, Kubernetes, OpenSSL, MongoDB

Other: Google APIs, HuggingFace, TensorFlow, REST APIs, Git

Professional Experience

SafeLogic Inc.

Palo Alto, CA

Software Engineering Intern II

October 2024 - August 2025

- Implemented **Leighton-Micali Signatures** (LMS) in CryptoComply v4 and integrated **post-quantum cryptography** algorithms (Open Quantum Safe & **OpenSSL**) to strengthen stability and future compliance
- Developed ACVP-ready test harness and expanded Optest suite to validate algorithms against **FIPS** and **CNSA 2.0 standards**
- Updated OpenSSL FIPS 140-3 provider modules (AES, SHA, DRBG, etc.) to improve security and standards alignment
- Built an internal marketing tool and Puppeteer smart bot that automated outbound client searches, drastically reducing time spent on manual prospecting; managed a database of **90,000+** contacts for marketing campaigns

Full-Stack Developer Intern I

May - August 2024

- Designed and deployed FIPSy, an internal AI copilot that learned and indexed **1,000+** pages of dense FIPS standards, enabling semantic search in MongoDB Atlas and saving time otherwise navigating dense compliance documentation
- Automated extraction from **1,000+** documents with pyPDF & Tesseract OCR, increasing efficiency **10x** across varied formats
- Built a **Customer Deployment Controller** to automate entitlement checks and endpoint updates, accelerating delivery while improving security and reliability
- Updated Jenkins pipelines and build scripts to align customer builds with FIPS 140-3, standardizing deployments with **Kubernetes** and artifact storage in JFrog Artifactory

BostonCentral.com

Boston, MA

Full-Stack Developer

June 2021 - Present

- Upgraded codebase from **PHP 5** to **PHP 8**, refactoring **10,000+** lines of deprecated code, enhancing performance & security
- Developed mobile-friendly UI features, including a sticky newsletter sign-up bar, improving user sign-ups by **15%**
- Built a **custom CMS** and designed and maintained automated newsletter software, increasing user engagement by **50%**
- Integrated and designed full suite of backend analytical tools to track user behavior and inform design decisions and streamline the event submission and approval process to enhance user engagement and content generation

Relevant Projects

PrepDragon:

Created a multi-agentic system agent using LangChain and Gemini 2.5 Flash to simulate generated real-time mock interviews, to measure and provide feedback on answer depth and confidence, using eye tracking and emotional tone tracking libraries.

BU Alpha Quant Senior Project:

Collaborated with a hedge fund advisor to build an LLM-driven quant trading strategy; designed an autonomous trading bot (Python, Pandas) integrating news APIs and semantic data. Delivered weekly performance results and refined the model for real-world application using a **10k budget**.

Spotify "Soulify" Dating app:

Developed a Python-based dating app using Spotify's API to generate personalized profiles and match users by musical similarity. Implemented user authentication, profile recommendation logic, and an interactive front end. Earned **1st place** in a programming competition of **25 teams**.

INTERESTS: rugby, backcountry skiing, most science-fiction books, long-distance running, speech and debate, & playing squash