

BAO TRINH

Kent, WA

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Education

University of Washington

Bachelor of Science in Computer Science

August 2025

Major GPA: **3.7**

Awards: Deans List (7 Quarters)

Technical Skills

Languages: Python, Java, JavaScript, SQL (MySQL, SQLite, MS SQL), HTML, CSS

Databases: MySQL, SQLite, MS SQL

Cloud/Systems: AWS EC2, Linux, Windows

Tools/Frameworks: Git, GitHub, GitLab, Docker, Jenkins, Spring Boot, Maven, Jira, Bitbucket, LangChain, pytest, JUnit

Foundations: Data Structures & Algorithms, Object-Oriented Programming (OOP), REST APIs, CRUD operations, API integration, Unit Testing, Debugging, Version Control, SDLC, CI/CD, Agile

Experience

Ascend Trading LLC

Co-Founder & Software Engineer (Part Time)

Remote

Jun 2021 – Present

- **Grew** a quantitative trading community to **3,100+** members through algorithmic strategy breakdowns and live Q&A sessions.
- **Increased paid conversion rates** via Python-based **trading automation** with statistical modeling, machine learning, and AWS EC2 deployment.
- **Improved feature delivery by 30%** using Jenkins **CI/CD** pipelines and an Agile roadmap.
- **Reduced churn to 16%** through workshops, mentorship, and direct member support.
- **Generated \$63K ARR (\$5.3K MRR)** by launching tiered subscriptions and automating payment workflows.

Bili Internship

Software Engineering Intern (Full Time)

Bellevue, WA

Jun 2025 – Oct 2025

- **Boosted reliability by 40%** by engineering a high frequency **cryptocurrency arbitrage** platform with a multi-agent workflow, reducing trade errors and downtime.
- **Cut development time by 35%** with a **LangGraph** based orchestration system (market data, risk, execution agents).
- Achieved **99.8%** cycle success and **sub second** execution via parallelized agent communication, robust state management, and **asyncio**.
- **Increased throughput 3x** with concurrent exchange integrations and optimized processing.
- Maintained **99.9%** uptime in continuous simulations using **Redis** circuit breakers and distributed shared state.

Tukwila Youth Tech Program

Instructor Assistant

Tukwila, WA

Sep 2022 – May 2023

- **Improved quiz scores by 20%** for 25 students via interactive, game based lessons.
- **Achieved 95% project completion** teaching Java fundamentals to 40+ students with live demos and pair programming.
- **Raised coding proficiency by 30%** through weekly 1:1 tutoring and tailored challenges.

Projects github.com/BaoTT05

AWS Cloud Challenge

React, Java 21, AWS Lambda, DynamoDB, S3, CloudFront, GitHub Actions, SAM CLI

Nov 2025

- **Built full stack serverless portfolio** with React frontend and Java Lambda backend; **deployed on AWS** with 99.9% uptime.
- **Implemented real time visitor tracking** using DynamoDB atomic operations; **processed 100+ concurrent requests** reliably.
- **Configured production infrastructure** with CloudFront CDN, automated SSL, and **sub second global load times**.
- **Established GitOps workflow** with GitHub Actions CI/CD; **achieved zero downtime deployments** via Infrastructure as Code.

Intelligent Discord Support Bot

Python, Discord.py, LangChain, OpenAI API, FAISS, AWS EC2, Git

Mar 2024

- **Achieved 90% response accuracy** with a retrieval-augmented chatbot; deployed on **AWS EC2**.
- **Handled 1,000+ interactions** via RBAC, automated onboarding, and categorized queues.
- **Integrated Discord API** for command handling and event-driven workflows; **FAISS** for vector search across **10K+** chunks.