Giovanni Assad

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Education

Northeastern University Boston, MA
Bachelor's Degree in Computer Science *April 2026*
GPA: 3.6

Related Coursework: Data Structures & Algorithms, Object-Oriented Programming, Programming in C++, Computer System Organization, Databases, Linear Algebra, Discrete Structures, Machine Learning, AI.

Technical Skills

Languages: Java, JavaScript/TypeScript, C++, Python, C#, C, SQL, HTML/CSS
Frameworks & Libraries: React, Next.js, NodeJS, Flask/FastAPI, Spring Boot, .NET
Tools & Platforms: Git, AWS/GCP, Azure DevOps, PostgreSQL, MySQL, MongoDB, Supabase

Experience

Amazon September 2025 - Present
Software Engineer Intern *Seattle, WA*

- Built an internal mentor recommendation system for Amazon's AI agent using TypeScript, Java, AWS Lambda, DynamoDB; reduced mentor lookup time from 6+ minutes to seconds while supporting 1000s of employee queries.
- Designed a Spring Boot and AWS Lambda API with ML matching that served recommendations for 200k+ users.
- Shipped a Node.js MCP server powering mentorship access for 3 LLM clients, resulting in 2x match requests.
- Wrote comprehensive integration and unit tests with $> 95\%$ coverage, ensuring system stability and reliability.

Opero Labs June 2025 - August 2025
Co-Founder *San Francisco, CA*

- Raised a pre-seed round at an 8-figure valuation to build AI browser agents powered by natural language.
- Built a browser agent that crawls/interacts with the DOM and extracts content using LangChain and Stagehand.
- Programmed a scalable backend with Python and FastAPI to orchestrate agent steps and multi-action workflows.
- Led CI/CD and product development to keep core AI browsing services stable and reliable for 50+ customers.

Philips July 2024 - December 2024
Software Engineer Co-op *Cambridge, MA*

- Delivered 15+ full-stack C#/.NET features for a patient monitoring system used in 5,000+ hospitals; optimized data pipelines for real-time physiological signals, reducing processing latency by 5% and improving throughput.
- Converted PIC iX components from the monolith to microservices, eliminating redundancies and fixing 10+ bugs.
- Achieved 100% test coverage across new and modified code, increasing system resilience and preventing regressions.
- Refactored a MySQL schema for a physiological data store, allowing it to support 4 more client integrations.

Northeastern University (gruepr.com) January 2024 - July 2024
Research Assistant *Boston, MA*

- Built and optimized C++/Qt components for gruepr, an open source genetic algorithm tool that partitions students into near optimal teams based on instructor specified survey criteria. See the paper here.
- Developed a backend service with Python and Flask to streamline LMS integrations for more than 80 institutions.
- Automated C++ documentation with Doxygen, accelerating onboarding and improving overall knowledge transfer.

Projects

Sherpa (sherpatasks.com) September 2024 - July 2025

- Created a Node.js GitHub bot with LLM driven search to suggest code fixes, deployed across 50+ repositories.
- Designed and built a Next.js landing page that boosted user retention and product trial engagement by 30 percent.
- Coded a pipeline that converted large codebases into vector embeddings in MongoDB Atlas, enabling faster search.
- Used LangChain to build a ranking and similarity algorithm that materially improved LLM context retrieval quality.

Awards & Clubs: PEAK Awardee for Undergrad Research, Dean's List (all semesters), Sandbox