

Giovanni Vitale

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EDUCATION

Stony Brook University | 3.98/4.0 GPA

May 2028

B.S. in Computer Science (Honors) and Mathematics

New York, NY

- **Coursework:** Software Development, Data Structures, Algorithms, Object-Oriented Programming, Systems Fundamentals, Data Science, Linear Regression Analysis, Discrete Math, Theory of Computation

EXPERIENCE

IBM

Aug 2026 – Dec 2026

Software Engineer Intern

San Jose, CA

Amazon

May 2026 – Aug 2026

Software Engineer Intern

Seattle, WA

Acadia Analytics

May 2025 – Aug 2025

Software Engineer Intern

New York City, NY

- **Engineered** the core Python backtesting infrastructure to process and validate 6+ months of trading data
- Deployed a **REST API** linking LLM agents and backtesting infra, automating **100+** multi-asset evaluations
- Boosted testing output by **40%** by writing documentation that standardized development workflows
- **Optimized** existing model code to cut computation time by **30%**, accelerating the software development life cycle

Google

Oct 2025 – Dec 2025

Google Software Engineering Program

New York City, NY

- Partnered 1:1 with a Google engineer over a 10-week program, analyzing 40+ complex problems to master code performance, scalability, and algorithmic design
- Worked with a Google mentor to refactor a project's data layer, migrating from AWS DynamoDB to SQLite to achieve a 90% reduction in query latency

Stony Brook University

Aug 2025 – Dec 2025

Teaching Assistant - Data Structures and Algorithms

New York City, NY

- Led weekly Java OOP labs for 30+ students, improving average assignment scores by 15% through mentorship
- Graded 30+ weekly assignments and Data Structures Honors exams, providing feedback on algorithmic efficiency

PROJECTS

[SBU Easy A](#) | AWS, FastAPI, Python, React, Selenium, SQLite, TypeScript

- Built a web platform used by **5,100+** unique students to find the easiest Stony Brook courses, analyzing real grade distributions from **360+** courses and **2,000+** sections
- Developed a **FastAPI** backend with **SQLite** database to serve course data via **REST APIs**
- Deployed serverless architecture on **AWS Lambda** (FastAPI backend) and **Amplify** (React frontend)

Seawolf Course Finder | Python, Flask, scikit-learn, PyTorch, BeautifulSoup4, JavaScript

- Developed full-stack AI recommendation engine via **TF-IDF/Cosine Similarity** achieving **95%+** relevance.
- Integrated **Flask API** with ML engine/DB layer to serve ranked results in **<1s** end-to-end latency.
- Built concurrent **BeautifulSoup** scrapers to ingest structured data from **60+** university departments.

AWARDS

- **Hackathon Winner** - Stony Brook University HopperHacks 2025
- **Datathon Winner (Financial Analysis Track)** - Stony Brook University Datathon 2025
- **Top 5% Nationally (AIME Qualifier)** - American Mathematics Competition Certificate of Distinction
- **Overwatch: (Rank 1 North American Tank Player)** - Consistently Top 10 for 10 Seasons

TECHNICAL SKILLS

Languages: Python, Java, C++, C, TypeScript, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: React, Next.js, Node.js, Express, Flask, FastAPI, Angular, PyTorch, scikit-learn, Pandas, NumPy

Data & LLMs: Hugging Face, LLM APIs (Gemini, OpenAI, Anthropic)

Databases: PostgreSQL, MongoDB, MySQL, NoSQL

Cloud & DevOps: AWS (EC2, S3, Lambda), GitHub Actions, CI/CD, Agile