# Hojat Jaffary

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## EDUCATION

**Stony Brook University** — Stony Brook, NY
*B.S in Computer Science* — *Expected May 2025*

- Cumulative GPA: 3.7 and Dean's List (5 Semesters)
- Relevant Coursework: Software Development, Data Structure and Algorithms, Analysis Of Algorithms

## EXPERIENCE

**Alvarez & Marsal** — New York, NY
*Forensic Tech* Intern - Data Analytics — *Jun. 2024 - Aug.2024*

- Utilized Python and X's API v2 to extract and analyze large volumes of tweets, employing an NLP library for detailed sentiment analysis, and created a comprehensive visual timeline in Excel to support strategic decisions.
- Queried and managed client data using SQL, ensuring data accuracy and integrity while uncovering actionable insights to improve security measures.
- Developed and delivered technical presentations to senior directors, effectively communicating complex data findings and demonstrating the impact of advanced machine learning techniques in network anomaly detection.

## PROJECTS

**SealSync** — Stony Brook, NY
*Software Engineer* — *Aug. 2024 - Dec. 2024*

- Developed a distributed peer-to-peer file-sharing application leveraging Libp2p protocols.
- Implemented a secure and scalable proxy network enabling users to purchase and utilize proxies.
- Created a custom cryptocurrency, Seal Sync, forked from Bitcoin Core, to facilitate secure and decentralized transactions. Built a user-friendly frontend using React and backend with Go.

**Fake Stack Overflow** — Stony Brook, NY
*Software Development* — *Feb. 2024 - May 2024*

- Developed a full-stack application replicating Stack Overflow using React.js, Express.js, Axios, MongoDB, and Node.js. Designed a NoSQL database schema to handle user data and interactions efficiently.
- Collaborated with a partner to integrate front-end and back-end functionalities, ensuring seamless operation and a responsive user interface.

## LEADERSHIP/EXTRACURRICULAR

**Afghan Student Organization** — Stony Brook, NY
*President* — *Aug. 2023 – Present*

- Collaborated closely with fellow executive board members to coordinate events for over 200 members, fortifying the Afghan community and ensuring organizational alignment with university club guidelines.
- Raised $10,000 in humanitarian aid for Afghan children through strong fundraising initiatives.

**Stony Brook University** — Stony Brook, NY
*Vertically Integrated Undergraduate Researcher* — *Jan. 2024 - Jan. 2025*

- Researched the ethical implications of autonomous vehicles with a team of 8, using Utilitarianism and Kantianism. Tested these theories in our virtual simulation, with many specific scenarios.
- Developed a JavaScript self-driving car simulation with neural networks and machine learning.

## SKILLS

*Programming Languages:* Java, Python, C, C++, R, HTML, CSS, JavaScript, SQL, MongoDB, Go, Ruby on Rails
*Frameworks & Libraries:* Bootstrap, React JS, Node JS, FastAPI, SQLAlchemy, Express.js, Node.js, z3Py, NumPy
*Tools:* Visual Studio Code, Git, Adobe Photoshop, Postman, PostgreSQL, Microsoft Office