

# Hojat Jaffary

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## EDUCATION

### Stony Brook University

B.S in Computer Science

Stony Brook, NY

Expected May 2025

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

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### Alvarez & Marsal

Forensic Tech Intern - Data Analytics

New York, NY

Jun. 2024 - Present

- Researched public statements and created a comprehensive visual timeline using Excel, showcasing findings for strategic decision. Utilized X API v2 to extract tweets and perform sentiment analysis.
- Informed a panel of senior directors about complex legal cases involving clients through presentation.
- Conducted in-depth research on machine learning techniques in anomaly detection in networks, providing actionable insights that benefited the company's security measures.

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## PROJECTS

### ConneK

Web Application

Bay Shore, NY

Jul. 2023 - Present

- Designed a personal networking tool that tracks the last interactions for over 1,000 contacts, generates reminders for staying in touch, and effectively organizes your professional network.
- Utilized backend FastAPI creating REST APIs, relational database PostgreSQL and frontend React.js

### Fake Stack Overflow

Software Development

Stony Brook, NY

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.

### Sudoku Puzzle Solver

Artificial Intelligence

Stony Brook, NY

Apr. 2024

- Executed an AI-based Sudoku puzzle solver utilizing the z3Py library, demonstrating strong proficiency in artificial intelligence and constraint satisfaction problem-solving, achieving a 98% accuracy rate.

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## LEADERSHIP/EXTRACURRICULAR

### Stony Brook University

Vertically Integrated Research Assistant

Stony Brook, NY

Jan. 2024 - Present

- 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 virtual simulation in JavaScript for self-driving cars with neural networks and sensors.

### Afghan Student Organization

President

Stony Brook, NY

Aug. 2023 - Present

- Collaborated closely with fellow executive board members to coordinate events for over 150 members, fortifying the Afghan community and ensuring organizational alignment with university club guidelines.
- Raised \$5,000 in humanitarian aid for Afghan children through strong fundraising initiatives.

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## SKILLS

**Programming Languages:** Java, Python, C, R, HTML, CSS, JavaScript, SQL, MongoDB

**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

**Certifications:** Microsoft Office Specialist, NYS Security Guard