

# JERRY XIAO

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## Education

### Stony Brook University

Aug 2022 – May 2026

Stony Brook, NY

Bachelor of Science in Computer Science and Applied Mathematics

- **Relevant Coursework:** Software Development, Computer Networks, Computer Systems, Computational Finance, Artificial Intelligence, Data Science

## Experience

### Broadridge Financial Solutions

Jun 2025 – Aug 2025

Full Stack Software Engineering Intern

Broadridge Financial Solutions

- Designed a recommendation system to evaluate 60,000+ test cases across multiple portfolios for automation suitability, reducing manual evaluation effort by 75% using a custom scoring algorithm and evaluation framework
- Created a React.js front-end with Google MUI, organizing automation recommendations across 10+ portfolios, improving visibility of automation opportunities and supporting over 200 QA-led test planning sessions per quarter.
- Built a Python API to query PostgreSQL database and prepare metadata for 60,000+ test cases, enabling automated LLM evaluation for 85% of test suites across all portfolios.
- Developed a Python-based API to interact with a Large Language Model (LLM), providing consistent, structured recommendations and reduced variability in QA decision-making by 40% across teams

### Stony Brook University

Jan 2025 – May 2025

Data Structures/Algorithms Tutor

Stony Brook University

- Hosted over 7 weekly office hours, providing personalized support on homework and exam preparation for students.
- Managed and responded to student inquiries on Piazza for a class of over 100 students, ensuring timely clarification of complex algorithms and data structures concepts.
- Guided undergraduates through over 10 coding problem sets, reinforcing foundational CS principles and problem-solving techniques

## Projects

### Zaipu | React.tsx, Google MUI, MongoDB, Graph.js, Mongoose, JavaScript, Flask, Python

- Built a full-stack financial analytics platform using React.js, Flask, and MongoDB, enabling users to track transactions and forecast future expenses with Python.
- Developed an interactive transaction dashboard with Graph.js and Material-UI, enhancing financial insights through real-time data visualization
- Implemented secure authentication and optimized API performance using bcrypt, Express.js, and Axios, ensuring data protection and seamless user experience

### Squidcoin | React.tsx, Google MUI, MongoDB, JavaScript, Go, HTML/CSS, Git

- Designed and implemented a sleek, responsive UI for a P2P file-sharing desktop application using React.tsx, Electron, and Material UI, integrating a custom collapsible header that elevated user experience and streamlined navigation
- Developed a resilient P2P backend system in Go with a Kademlia DHT node structure, providing scalable, fault-tolerant file storage and retrieval
- Drove the integration of Go-libp2p for seamless peer-to-peer connections and HTTP protocols to handle file transfers, achieving high-efficiency data exchange between users

## Technical Skills

**Languages:** Python, Java, Go, HTML/CSS, JavaScript, Typescript, SQL, C++

**Technologies/Frameworks:** React.js, Node.js, Google MUI, Mongoose, MongoDB, Axios, Express.js, GitHub

## Awards

### Competitive Programming

- 13th Place in 2024 ICPC Greater NY Regionals Competition
- 1st place in SBU 2024 ICPC Selection Contest Senior Division
- 3rd place in SBU 2022 ICPC Selection Contest Junior Division

### Stony Brook University

- University Scholars Scholarship