

Education

Stony Brook University, Stony Brook, NY

Bachelor of Science in Computer Science, specialization in Security and Privacy, Artificial Intelligence and Data Science.

GPA: 3.48

Summary: Aspiring Full Stack Engineer with internship experience in optimizing RESTful APIs and developing real-time data visualization components. Skilled in MERN stack, Python/FastAPI, and Docker containerization, with a proven track record of improving system performance and reliability. Successfully led projects that reduced load times and enhanced data processing efficiency. Eager to leverage technical expertise and innovative solutions to drive success in a Full Stack Engineer role..

Experience

Full Stack Engineering Intern, Beyond Exclamation, Pune, MH

May 2025 - August 2025

- Optimized critical content retrieval **RESTful APIs** built in **Node.js** and fine-tuned corresponding **React/TypeScript** front-end components, which collectively **decreased** average article load time by **18%** and **lowered API response time** by **20 ms**.
- Elevated code reliability by leading the development of **80+ comprehensive unit tests** using **Jest** and maintaining legacy **PHPUnit** tests, significantly **reducing hotfix deployments** by **15%** and ensuring adherence to **weekly Agile sprints**.
- Streamlined the deployment environment by implementing **Docker containerization** for the local stack and **assisting with application deployment and monitoring on AWS**, ensuring environment **consistency** across the engineering team.

Software Engineering Intern, ElectRay, Remote

June 2024 - August 2024

- Developed real-time data visualization components in **React** to parse and display live diagnostic signals, enabling engineers to identify and resolve system anomalies **20% faster**.
- Architected a **Python-based microservice** using **FastAPI** to process and aggregate diagnostic logs from multiple vehicle ECUs, increasing data ingestion throughput by **35%** and supporting **10 new critical diagnostic parameters**.
- Developed and integrated an **automated regression testing suite** using **Python** and **Pytest** within the team's **GitHub Actions CI/CD pipeline**, reducing manual validation efforts by over **90%** and accelerating the build verification process.

Undergraduate Research Assistant, Stony Brook University, NY

Jan 2024 - May 2024

- Designed a privacy-preserving **data sharing system** for **5 distributed agents** using AES encryption with **PyCryptodome**, securing real-time communication.
- Integrated **cryptographic protocols** to ensure data **integrity** and **confidentiality** for **500+ sensitive data** exchanges.
- Optimized encrypted **data processing** with machine learning models, **improving efficiency** by **20%** while ensuring privacy.

Projects

Stack Overflow like Web Application

Feb 2024 - May 2024

- Built a **full-stack Q&A platform** with **100+ active users** using **React**, **Node.js**, and **MongoDB**.
- Implemented **secure user authentication** with **JWT** and **Bcrypt**, ensuring **data protection** (Node.js, Express).
- Designed **RESTful APIs**, **improving performance** by **30%** for a smooth, scalable experience (Node.js, MongoDB).

Schedulee - A Google Calendar Clone

September 2025 - Current

- Architected a **full-stack calendar application**, developing a **React** front-end and engineering RESTful API endpoints with **Python FastAPI** to manage all event and user data.
- Designed a **complex PostgreSQL schema** to support advanced features like **recurring events**, and implemented a background service that triggers **real-time notifications**.
- Containerized the entire application stack (front-end, API, and database) using **Docker**, ensuring a consistent and portable **production-ready** environment.

SAM - An Academic Management System

August 2025 - Current

- Architected and implemented a full-stack solution (React/FastAPI/PostgreSQL) with **JWT authentication** and **fine-grained Role-Based Access Control (RBAC)** for four user classes.
- Developed a **declarative degree-audit engine** utilizing **complex relational data models** to evaluate academic requirements, enforce **prerequisite/corequisite constraints**, and power an **optimization-based auto-planner** for multi-term scheduling.
- Engineered **resilient data pipelines** leveraging **web-scraping techniques** for course catalog ingestion and a **PDF parsing utility** for class schedules, ensuring data integrity and term-over-term versioning for 100+ course subjects.

Certifications

- SevenMentor Cisco Certified Networking Associate, SevenMentor Ethical Hacking, SevenMentor Red Hat Linux

Skills

- Languages:** Python, JavaScript, TypeScript, SQL, HTML5, CSS3, C
- Frameworks & Libraries:** React, Node.js, FastAPI, Express.js, Pytest, Jest, GSAP, PHPUnit
- Databases:** PostgreSQL, MongoDB
- DevOps & Cloud:** Docker, AWS, Git, GitHub Actions (CI/CD), Vercel, Agile
- Security & Auth:** JWT, Bcrypt, AES Encryption, Role-Based Access Control (RBAC), HTTPS
- Tools & Technologies:** Linux, Postman, Web Scraping, PDF Parsing, Cisco (CCNA)