

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)