

# OWAIS AAMAN SHEIKH

Stony Brook, NY (Open to relocation)

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## Education

### Stony Brook University, SUNY

Sep 2023 – May 2025

Master of Science in Computer Science; GPA: 3.71/4.0

Stony Brook, NY

Coursework: NLP, Distributed Systems, Network Security, Computer Vision, Data Science Fundamentals, Machine Learning

### SRM Institute of Science and Technology

Jun 2018 – Jun 2022

Bachelor of Technology in Computer Science; GPA: 4.0/4.0

Chennai, India

## Technical Skills

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

**Tools:** Git, Jenkins, Docker, AWS, Kubernetes, Linux, Selenium, Grafana, Agile, SCRUM, Kafka, CI/CD, GCP, Azure DevOps, JIRA

**Technologies:** REST APIs, TensorFlow, PyTorch, CUDA, WebAssembly, GraphQL, Webpack, Microservices, Parcel, Babel

**Databases:** MongoDB, MySQL, NoSQL, PostgreSQL, HDFS, Spark, Hadoop, Pig, Hive, Time-Series Databases

**Frameworks:** React, Express, Node, Vue, Angular, Flutter, Django, Flask, jQuery, Bootstrap, Spring Boot, SproutCore, Rails

## Experience

### Stony Brook University

Jan 2024 – Dec 2024

Graduate Research Assistant - (Software Engineer)

Stony Brook, NY

- Directed the development of **GeoHealth Navigator** project, employing TypeScript, React, and JavaScript to develop dynamic, responsive visualizations that map social vulnerability and public health risks across **U.S. counties**, enhancing data accessibility.
- Integrated and streamlined diverse **datasets** into a cohesive, **user-friendly interface**, featuring interactive maps, charts, and visual analytics. Collaborated with Prof. Klaus Mueller and a multidisciplinary research team, ensuring precision and effectiveness in representing complex public health data, distribution patterns, demographic insights, socioeconomic impacts and risk factors.

### Parma CRM, Inc

Jun 2024 – Aug 2024

Software Engineer Intern

Sunnyvale, CA

- Contributed to the development of **Parma**, a **CRM** tool designed to enhance customer success and account management, by leveraging Ruby and Ruby on Rails to build robust and scalable **backend** solutions boosting system responsiveness and reliability.
- Implemented key features to strengthen **customer relationships**, including stay-in-touch cadences, comprehensive customer data management, and automatic reminders. These enhancements collectively improved customer retention rates by **10-15%**.
- Orchestrated the creation and development of a scalable and reliable **software infrastructure**, ensuring high performance and seamless integration with other **SaaS** platforms, resulting in a seamless CRM experience and improved operational efficiency.

### Secure Dataware Technologies

Jan 2022 – Sep 2023

Software Engineer

Hyderabad, India

- As part of the **Software Development team**, I spearheaded the development of **NexusFlow**, an advanced workflow automation platform designed for both internal use & external clients. Achieved a **20%** boost in project collaboration and **25%** increase in user engagement through innovative **React** interface design, significantly improving project workflows and operational efficiency.
- Led a **cross-functional team** adeptly, decisively reducing development time by **30%**. Utilized **Git** and **Agile** methodologies to manage and streamline development processes, earning positive feedback for both **frontend & backend** contributions.
- Enhanced **performance** through optimization techniques that resulted in a **15%** increase in application speed and enhanced **user experience**, solidifying NexusFlow's reputation for efficiency and responsiveness highlighting its capabilities for users.
- Implemented a scalable **microservices** architecture using **Node.js** and **Docker**, reducing deployment time by and enabling seamless feature updates, enhancing NexusFlow's adaptability to client requirements and evolving business needs.
- Developed and integrated advanced **data visualization modules** using **D3.js** and **Chart.js**, providing real-time insights into project metrics. Increased **data transparency** by **35%**, empowering clients with data-driven decision-making capabilities.

## Projects

### Disturbed Systems: Decentralized Autonomous File Storage Network | Kafka, Python, Java

Jan 2024 – May 2024

- Architected and executed a resilient decentralized file storage network with autonomous operation, dynamic resource allocation, fault tolerance, and self-healing capabilities, eliminating the need for centralized servers.
- Incorporated security measures including encryption and digital signatures, while developing user-friendly interfaces and APIs for seamless interaction, demonstrating innovation and expertise in decentralized systems architecture.

### Machine Learning: Flight Delay Prediction | Python, Git

Aug 2023 – Dec 2023

- Crafted a predictive model for flight delays using a 10-year dataset from four major US airports, meticulously analyzing weather conditions at both the source and destination airports to understand their impact on flight schedules.
- Performed extensive exploratory data analysis and advanced feature engineering to identify key factors affecting delays, implementing the XGBoost algorithm to build a robust model, which achieved an RMSE of 6 and an accuracy of 75%.

### AI-Powered: Collaborative Storytelling Platform Development | Python, LLMs, AWS, HTML/CSS

Jun 2022 – Dec 2022

- Engineered a user interface that leveraged AI technology for personalized content delivery; the innovative approach increased user session duration by 25 minutes, enhancing overall user experience and satisfaction with the platform.

### Concurrency-Driven: Data Structures in C++ | C++, GDB, Locks

Feb 2021 – May 2021

- Designed and implemented a high-performance suite of concurrent data structures in C++ leveraging shared locks and atomic operations, optimizing multi-threading efficiency and minimizing contention in parallel processing tasks.

## Publications

Published an Int'l paper titled "The Advantages & Obstacles of Adopting AI Chatbots in Higher Education" in IJAEM conference. **Paper**

Published an Int'l paper titled "Revolutionizing Rainfall Prediction with Advanced Deep Learning Techniques" in IJHS conference. **Paper**