# SATYA SAI SUJAN NADIMINTI

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## EDUCATION

**University of Florida** **Aug 2023 - May 2025**
*Master of Science, Computer Science (GPA: 3.66/4.0)* *Gainesville, FL, USA*

**Coursework:** Analysis of Algorithms, Advanced Data Structures, Software Engineering, Data Science, Machine Learning, Database Management Systems, Advanced Computer Networks, Distributed Operating Systems

## TECHNICAL SKILLS

**Programming:** Java, Python, C++, JavaScript, TypeScript, SQL, HTML, CSS
**Frameworks:** React, Angular, NgRx, Spring Boot, Flask, Node.js, Express.js, JUnit, Jest, Next.js, REST APIs
**Data & ML:** PostgreSQL, Oracle SQL, MongoDB, NumPy, Pandas, Scikit-learn, PyTorch
**Cloud & Others:** AWS, Azure, Docker, Linux, Git, GitHub Actions, Jenkins, Kafka, Agile (Scrum)

## WORK EXPERIENCE

**Software Engineer | Intersect Healthcare Systems, Gainesville, FL, USA** **May 2025 - Present**

- Built 20+ **Angular** components and delivered key features in a healthcare portal for doctors, including patient details, appointment scheduling, reminders, and messaging, improving provider efficiency by 25%.
- Integrated **FHIR R4/R5 APIs** for data exchange and updated the frontend for R5 migration, reducing integration issues by 35%.
- Refactored legacy **JavaScript** into modular Angular components with **lazy loading,** reducing initial load times by 30%
- Improved code quality and delivery by developing unit and integration tests with **Karma** and **Jest,** achieving 80% coverage, and automating **CI/CD** with **Jenkins** to reduce bugs by 25% and deployment time by 40%.
- Implemented user authentication in the healthcare portal using **Azure AD** and **OAuth 2.0,** ensuring secure role-based access.

**Software Developer | University of Florida, Gainesville, FL, USA** **May 2024 - May 2025**

- Developed a 3D flight visualization tool using **React, Flask,** and **Three.js,** with automated data preprocessing to support large-scale drone simulations, reducing manual effort by 60%.
- Leveraged Amazon Web Services, including **AWS Batch, EC2,** and **CloudWatch** Logs, to automate training on 2M+ records daily, reducing model training time by 60%, and improve pipeline efficiency by 30%.
- Implemented **CI/CD** pipelines with **GitHub Actions** and **Docker** to streamline deployments, reducing release errors by 30%.
- Built and integrated deep learning models with PyTorch Lightning and CUDA for drone trajectory prediction, achieving 70% faster training with multi-GPU optimization.
- Ensured reproducible ML workflows with Conda, preventing version conflicts and reducing environment setup time by 15%.

**Software Engineer | Vellore Institute of Technology, Vellore, India** **Dec 2022 - Jun 2023**

- Engineered a real-time video application with **Flask** for live sign language translation, improving user comprehension by 50%.
- Built a scalable **Python** data pipeline for 25K+ gesture sequences, improving reliability by 35% and reducing inference failures.
- Developed microservices and **RESTful APIs** for video frame ingestion and gesture recognition using MediaPipe and OpenCV, reducing latency and improving system responsiveness by 40%.
- Implemented a responsive **React** interface with dynamic caption overlays on the video feed, enhancing readability by 25%.

**Software Development Intern | Abbeysoft Technologies, Bengaluru, India** **Jan 2022 - Jul 2022**

- Designed microservices and RESTful APIs for key features of a financial system using **Spring MVC** and **Spring Boot.**
- Developed **REST APIs** to trigger Spark ETL jobs in Databricks to process data from **AWS S3,** reducing manual work by 30%.
- Built **Kafka consumers** to deliver real-time fraud alerts to the frontend via **WebSockets**, improving delivery speed by 50%.
- Implemented a **MongoDB** snapshot store to persist real-time logs, enabling dashboards to reload recent events instantly and improving backend recovery speed by 30%.
- Deployed containerized backend services on **AWS ECS Fargate** via **CI/CD** pipelines, reducing deployment time by 35%.

## ACADEMIC PROJECTS

**Real Estate Trend Analyzer** | *Node.js, Express.js, React, Oracle SQL*

- Built a scalable full-stack app using **React** and **Node.js (Express.js)** to visualize real estate trends across 900K+ records.
- Designed **RESTful APIs** and 6 complex queries with **Oracle SQL** to deliver filtered results with 40% faster data retrieval.
- Deployed the application on **Azure VMs** and configured **Blob Storage** for backend data persistence and scalability.

**Severity Prediction App** | *Scikit-learn, Flask, React, Docker, AWS*

- Built a Covid prediction app with **Flask** and **React,** implementing robust data preprocessing to achieve 92% model accuracy.
- Implemented **CI/CD** with GitHub Actions to automate deployments on **AWS (S3 + EC2),** and containerized the app with **Docker.**

**Gator Library** | *Python, Red-Black Trees, Binary Min-Heaps*

- Built a library system with **Red-Black Trees** for O(log n) retrieval, improving search and borrowing responsiveness by 40%.
- Implemented **Binary Min-Heaps** to manage waitlists with priority-based reservations, reducing wait time by 30%.