

Sujan N

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EDUCATION

University of Florida

Master of Science, Computer Science (GPA: 3.7/4.0)

Aug 2023 - May 2025

Gainesville, FL, USA

Courses: Data Structures Algorithms, Software Engineering, Data Science, ML, Database Management, Operating Systems, Networking

Concepts: SDLC, Object-Oriented Design, ER Modeling, Test-Driven Development (TDD), Data Engineering, Complexity Analysis

WORK EXPERIENCE

Software Engineer | Intersect Healthcare Systems, Gainesville, FL

Jun 2025 - Present

- Architected distributed microservices with **Java**, **Spring Boot**, **RESTful APIs**, & **MySQL** for scheduling, access control, and notifications, improving API response time by 52% via caching and asynchronous processing.
- Optimized data access patterns using **Hibernate** (ORM), reducing query latency by 30% and improving system scalability.
- Streamlined **CI/CD** pipelines with **GitHub Actions**, **Docker**, & **Kubernetes**, implementing unit and integration tests with **JUnit** / **Mockito** to improve fault tolerance and reduce deployment errors by 35%.
- Owned end-to-end design and development of **MVC architecture**, improving modularity and accelerating feature delivery by 25%.

Software Developer | TEA Lab, Gainesville, FL

Jan 2024 - May 2025

- Developed and maintained scalable applications using **Python** & **Machine Learning** to design scalable APIs, optimize user management, and automate data-driven prediction workflows, enhancing system reliability by 40%.
- Optimized **PostgreSQL** queries and indexing, cutting retrieval time by 30% and achieving sub-second responses for 90% of requests.
- Spearheaded the redesign of the dashboard interface using **Node.js**, **React.js (JavaScript)**, & **Power BI**, incorporating customer feedback to boost engagement by 25% and deliver a more intuitive customer experience.
- Deployed backend and data pipeline on **AWS (Batch, EC2, ECS, Lambda, S3)**, optimizing cloud architecture to cut operational costs by 25% and increase throughput.
- Adopted **Agile Scrum** practices and mentored 4 engineers to enhance cross-functional (product and design) collaboration and code reviews, balancing product and technical requirements and mitigating risks to improve development efficiency by 25%.

Software Engineer | Vellore Institute of Technology, Vellore, India

Dec 2022 - Jun 2023

- Architected **RNN**, **LSTM**, & **Hugging Face Transformers** (NLP) via **Flask microservices** (Python) for real-time sign language translation, improving accuracy by 30% and end-to-end efficiency by 32% through optimized **OpenCV** inference.

Software Development Intern | Abbeysoft IT Services, Bangalore, India

Jan 2022 - Jul 2022

- Developed **Java**, **Spring Boot** microservices for large-scale systems on AWS to automate **Spark ETL** workflows via **REST APIs**, cutting manual intervention and boosting user productivity by 45% through faster data analysis.
- Implemented **Kafka** consumers and integrated **MongoDB** to stream real-time alerts to frontend dashboards via WebSockets, reducing latency by 63% and achieving 85% client satisfaction.

ACADEMIC PROJECTS

AI Surveillance System | Python, RAG, LLMs, YOLOv5, Pinecone, Kafka

- Engineered an AI-driven surveillance platform using LLMs, RAG, & YOLOv5 to automate anomaly detection and geospatial mapping, building a fault-tolerant pipeline that enabled proactive threat identification and reduced manual monitoring.

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

- Built Real Estate analytics app using Node.js (Express.js) & Oracle DB to process 900K+ records, optimizing SQL queries and APIs (System Architecture) to improve search performance by 40%, demonstrating strong problem-solving and analytical skills.

RESTful API Web Application | Golang, Redis, Docker, OAuth 2.0 (JWT)

- Developed a RESTful API in Golang to support a web application's backend, improving query performance and system efficiency.
- Integrated Redis caching to minimize database load, accelerating response times and boosting backend throughput by 13%.

Socket Programming for Internet Chatting | C++, Threading, Network Programming (TCP/IP)

- Designed and implemented a distributed real-time messaging service in C++ leveraging network communication protocols (TCP/IP) and multithreading (concurrent programming), enabling low-latency, scalable communication across multiple clients.

TECHNICAL SKILLS

Programming: Java, Python, C++, JavaScript, TypeScript, XML, HTML, Tailwind CSS

Frameworks: Spring Boot, Node.js, Express.js, React.js, Flask, JUnit, Jest, Redux, Hibernate

Databases: MySQL, PostgreSQL, NoSQL (MongoDB), Oracle SQL, Redis, Apache Kafka

ML & AI: PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, CUDA, LLMs (OpenAI, Copilot)

Cloud & Others: AWS, Azure, Docker, Kubernetes, Linux, Git, Jenkins, CI/CD, Postman, RabbitMQ

Certifications: Oracle Cloud Infrastructure Developer Professional, Oracle Generative AI Professional