

Sujan N

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EDUCATION

University of Florida

Master of Computer Science (GPA: 3.66/4.0)

Aug 2023 - May 2025

Gainesville, FL

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

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

WORK EXPERIENCE

Software Engineer

Intersect Healthcare Systems

June 2025 - Present

Gainesville, FL

- Designed distributed microservices with **.NET Core (C#), Java, RESTful APIs, & MySQL** to manage healthcare data and scheduling, improving average API response time by 52% via caching and asynchronous processing.
- Enhanced database efficiency with **Entity Framework Core** by refining queries and access patterns, reducing latency by 30%.
- Streamlined CI/CD pipelines with **Azure DevOps, Docker, & Azure Kubernetes Service**, implementing unit and integration tests with **xUnit / Moq** to improve fault tolerance and reduce deployment errors by 35%.
- Owned end-to-end design and development of **MVC** best practices, improving modularity and accelerating feature delivery by 25%.

Software Developer

University of Florida

Jan 2024 - May 2025

Gainesville, FL

- Developed and maintained enterprise applications using **C#, ASP.NET Core, & Python** (Machine Learning, HPC) to design scalable APIs, optimize user management, and automate data-driven prediction workflows on GPUs, enhancing system reliability by 40%.
- Spearheaded the full-stack development and redesign of the app interface with **Node.js, React.js, Tailwind CSS, & Power BI**, incorporating customer feedback to boost engagement by 25% and deliver a more intuitive customer experience.
- Integrated **PostgreSQL & MongoDB** databases to manage high-volume data, achieving sub-second query times for 90% of requests.
- Designed scalable backend and automated data pipeline on **AWS** (Batch, EC2, ECS, Lambda, S3) cloud infrastructure and optimized **CI/CD** automation with **Jenkins**, improving throughput, deployment efficiency, and cutting operational costs by 25%.
- Adopted Agile methodologies (Scrum) and growth mindset practices, mentoring peers to enhance cross-functional collaboration, documentation, and codebase reviews, enhancing development efficiency by 25% and driving continuous improvement.

Software Engineer (Research)

Vellore Institute of Technology

Dec 2022 - Jun 2023

Vellore, India

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

Software Development Intern

Abbeysoft IT Services

Jan 2022 - Jul 2022

Bangalore, India

- Developed **Java, Spring Boot** microservices on **Azure** for a financial system, automating Spark ETL workflows on **Hadoop** via **REST APIs** for large-scale data analytics, cutting manual intervention and boosting user productivity by 45%.
- Implemented **Kafka** consumers and integrated **MongoDB** to stream real-time alerts via WebSockets and leveraged **Git** for version control to maintain code reliability, reducing latency by 63% and achieving 85% client satisfaction.

ACADEMIC PROJECTS

AI Surveillance System | Python, RAG, LLMs, YOLOv5, Pinecone, Apache 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 DB, Redis

- Built a scalable Real Estate analytics app using Node.js, React.js, & Oracle SQL to analyze 900K+ records, optimizing SQL queries and API architecture to deliver 40% faster search performance.

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

- Developed a client-server chat application in C++ using socket programming and multithreading, enabling real-time, concurrent messaging across distributed clients.

TECHNICAL SKILLS

Programming: C# (.NET Core), Java, Python, C, C++, JavaScript, TypeScript, Rust, PHP, HTML5, CSS3, PowerShell

Frameworks: ASP.NET Core, Spring Boot, Node.js, Express.js, React.js, REST APIs, GraphQL, gRPC, TensorFlow, PyTorch

Databases: SQL, PostgreSQL, MySQL, NoSQL (MongoDB), Oracle DB, MS SQL Server, Cosmos DB, Redis

DevOps & Others: AWS, Azure, Docker, Kubernetes, Linux, Git, GitHub Actions, Claude, Copilot, Prometheus, RabbitMQ

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