Sanjay Uppala

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EDUCATION

Depaul University Chicago, US
Master's in Data Science August 2023- May 2025

Sree Vidyanikethan Engineering College Tirupati, India
Bachelor of Technology in Computer Science and Systems Engineering June 2017- May 2021

TECHNICAL SKILLS

Programming & Databases : Java, Python, C, R, MySQL, SQL, Oracle,Apache Spark (PySpark, Spark SQL)
Web Technologies : TypeScript, JavaScript, Angular, AngularJS, VueJS, HTML, CSS, Spring Boot, Spring
Full-Stack Development & DevOps : Full-Stack Development, CI/CD Pipelines, GitHub Actions, Azure DevOps
Database & Query Optimization : SQL, ETL Pipelines, Data Warehousing, Relational & Non-Relational Databases (Oracle, PostgreSQL)
Machine Learning & Predictive Modeling : Regression, Classification, Neural Networks, Recommender Systems.
Data Visualization & Reporting : Power BI, Tableau, Python (Matplotlib), Interactive Dashboards
Software & Scripting : Postman, GitHub, GitLab, VS Code, RESTful APIs, Automation Scripting

PROFESSIONAL EXPERIENCE

Silicon Valley Bank, *Full Stack Software Engineer* Feb 2024 – Feb 2025 | Phoenix, US

- Built and maintained **enterprise-grade banking applications** using **Java**, **Spring Boot**, and **AngularJS**, ensuring performance, scalability, and security.
- Designed and implemented **RESTful APIs** within a **microservices architecture**, enabling seamless communication between distributed services.
- Deployed applications to the **AWS cloud environment** and automated pipelines using **GitLab CI/CD**, improving release velocity and infrastructure consistency.
- Implemented **OAuth 2.0** based secure authentication and authorization flows, enhancing data protection in a highly regulated financial domain.
- Optimized front-end performance by **reducing load times**, improving caching, and managing **cookie/session behavior** for consistent user experiences.
- Refactored legacy UI components and modularized front-end code to enhance maintainability and support new feature development.
- Collaborated with **UI/UX designers**, **DevOps engineers**, and **product teams** in Agile sprints to align system capabilities with evolving business needs.
- Applied version control and best practices in **Git**, contributing to a clean, testable, and scalable codebase.

HealthShare, *Associate Software Engineer* Jan 2022 – Aug 2023

- Built an interactive and accessible front-end using **AngularJS**, **HTML**, **CSS**, and **JavaScript**, allowing users to schedule appointments via video, phone, or in-person modes.
- Integrated with backend services developed in **Spring Boot** to synchronize booking data and user sessions.
- Collaborated with backend and DevOps teams to implement **payment gateway support**, enhance load times, and ensure robust session management.
- Developed custom components and visual dashboards for appointment metrics and user activity tracking.
- Contributed to Agile sprints and **CI/CD pipelines using Azure DevOps** to ensure smooth deployments and faster iteration cycles.

Account Planning,Full Stack Developer Dec 2020 – Jan 2022

- Designed and built the platform from scratch using **AngularJS** for the front end and **Spring Boot** and **Java** for backend logic.
- Managed **MySQL** databases to track and analyze metrics like **clock-in/clock-out times**, performance summaries, and team allocation by role.
- Developed **RESTful APIs** and implemented **MVC architecture** for clean separation of components and efficient communication.
- Implemented data visualization features such as charts, tables, and dashboards to streamline HR reporting workflows.
- Collaborated with stakeholders to align platform features with operational and HR goals while delivering the MVP within tight deadlines.
- Used **JIRA** and **Confluence** for task tracking and documentation and contributed to **weekly Agile standups**.

ACADEMIC PROJECTS

Customer Churn Prediction

- Built a machine learning model to predict customer churn, improving retention strategies by identifying at-risk customers.
- Preprocessed and cleaned Kaggle datasets, and implemented algorithms like Logistic Regression and Gradient Boosting with high recall metrics.
- Evaluated model performance using accuracy, precision, and recall to optimize predictions.

Autonomous Driving with Deep Reinforcement Learning

- Built and trained RL agents (DQN, PPO, A2C) in *highway-env* to navigate complex driving scenarios like highways, intersections, and roundabouts.
- Tuned hyperparameters (y, learning rate) and evaluated agents using mean reward and success rate metrics.
- Achieved 100% success in highway tasks and strong performance in roundabouts using optimal configurations.
- Gained hands on experience with model stability, decision making under uncertainty, and policy learning in safety critical environments.