

Nirvisha Sriram

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SUMMARY

Master's in Computer Science student and aspiring Software Development Engineer with hands-on experience in **Java, Python, C++, and React.js**, building **scalable, distributed, cloud-native applications**. Skilled in **OOP, data structures, algorithms, microservices, and RESTful APIs**. Experienced in **AWS services, CI/CD pipelines, and agile development**, with a strong track record of delivering robust, maintainable software solutions.

EDUCATION

Master of Science, Computer Science – Santa Clara University | Expected June 2027

Bachelor of Engineering, Computer Science – MVSR Engineering College, Hyderabad | July 2021

Relevant coursework- Machine Learning, Data Mining, Probability & Statistics, Database Systems, Data Visualization

TECHNICAL SKILLS

Programming & Software Development: Python | Java | C++ | C | JavaScript | Object-Oriented Programming (OOP) | Data Structures & Algorithms | Problem Solving | Debugging | Unit Testing

Cloud & Distributed Systems: AWS (EC2, S3, Lambda, Bedrock, Rekognition, Amplify) | Microservices Architecture | RESTful APIs | Cloud-native Development | Distributed Systems | Fault-tolerant & Scalable Systems | CI/CD Pipelines

Machine Learning & AI: Machine Learning | Deep Learning | Computer Vision | NLP | Model Training & Evaluation | Feature Engineering | Data Preprocessing | Algorithm Optimization | AI Deployment | Agentic AI

Databases : SQL | MySQL | DynamoDB (NoSQL)

Web Development: HTML5 | CSS3 | JavaScript | React.js

Data Visualization & Business Intelligence: Tableau (Desktop & Server) | Power BI | Alteryx (Designer & Server)

Tools & Methodologies: Git (Version Control) | Agile Development | Jira | Backend Development | API Design & Testing | Workflow Optimization

Frameworks & Libraries: PyTorch | TensorFlow | Scikit-learn | LangChain | RetinaNet | YOLO | Mask R-CNN | NumPy | Pandas | Node.js | React.js

PROFESSIONAL EXPERIENCE

Associate Business Intelligence Analyst

Feb 2023 – October 2024

US Bank

Hyderabad, TS, India

- Managed **enterprise server infrastructure**, optimizing **system performance, uptime, and reliability** for internal applications.
- Automated server monitoring, scheduled maintenance, and configuration tasks, reducing downtime by 25% and ensuring **robust, fault-tolerant workflows**. Supported **data processing and scripting tasks**, improving efficiency of internal reporting and analytics pipelines.

Tableau Server Administrator (Programmer Analyst)

September 2021 - January 2023

Mylan Pharmaceuticals

Hyderabad, TS, India

- Administered **Tableau and Alteryx Servers**, managing user access, permissions, and content organization while ensuring optimal performance, reliability, and security. Monitored **server health and system performance**, reducing downtime by 25% through proactive maintenance, scheduled backups, and configuration updates.

Machine Learning Engineer Intern

May 2019 - July 2019

Goal Street

Hyderabad, TS, India

- Designed and implemented **machine learning models in Python**, including a **classification model, feature engineering and model evaluation** to predict **H1B visa approvals** with improved accuracy.

Data Analyst Intern

May 2018 - July 2018

Taken Mind

Hyderabad, TS, India

- Performed **financial data analysis** using Python, creating dynamic **visualizations and dashboards** to present insights through charts and graphs.

ACADEMIC PROJECTS

PRISM - AI Navigation System- AWS X INRIX Hackathon-2025

- Designed and deployed a **distributed, cloud-native** voice-assisted navigation system using **microservices architecture, AWS Lambda, Bedrock, and S3 with INRIX data**, delivering a scalable, fault-tolerant solution for real-time route guidance and obstacle detection. Integrated **cloud-based processing, CI/CD pipelines and Git-based version control** for seamless collaboration.

KITCHEN BUDDY - NVIDIA Hackathon-2025

- AI-powered recipe assistant using **NVIDIA NEMATRON, RAG pipeline, and NVIDIA Embeddings** for intelligent recipe retrieval and generation. Integrated **YOLOv8** for ingredient detection and **T5** for recipe creation within an interactive **Streamlit** app, showcasing multimodal AI and **NVIDIA inference capabilities**.

Road Accident Detection and Notification System Through CCTV Surveillance

- Developed an AI-powered surveillance system using CCTV feeds and Machine Learning, implementing **Mask R-CNN, YOLOv4, and RetinaNet** for real-time vehicle detection with **95% accuracy**.