

Sneha Yenduri

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EDUCATION

Master of Science in Information Systems

Dec 2025

Northeastern University, Boston, MA

Courses: Program Structures and Algorithms, Data Management and Database Design, Cloud Computing, Web Designing

Graduating Teaching Assistant (Network Structures and Cloud Computing): Mentored 50+ students in **Cloud (AWS)** and **DevOps** through tutorials and code reviews, emphasizing **Linux**, **Shell Scripting**, and **Terraform (IaC)**

WORK EXPERIENCE

Software Engineer Intern | Oracle (OCI) | California, USA

Jan 2025 – Jul 2025

- Developed an ML based log monitoring system that detects anomalies in real time and speeds up root cause analysis by roughly **5x**
- Built a **Root Cause Analysis Agent** by integrating an **LLM** with the log anomaly detection workflow through **MCP**, reducing manual investigation effort by about **70%** and improving developer productivity by roughly **35%**
- Architected this asynchronous **Python** full-stack app using **MySQL**, **FastAPI**, and **Streamlit** for efficient high-volume log processing
- Tuned and trained the **machine learning model**, boosting detection accuracy by about **18%** and cutting false alerts by nearly **30%**
- Automated periodic execution using **systemd** and performed comprehensive **end-to-end testing** to ensure reliability

Senior Software Engineer | Citibank (Fintech) | Pune, India

Aug 2021 – Aug 2023

- Designed scalable business solutions using **Java**, **Spring Boot**, **SQL**, **Microservices**, and **REST APIs** for high-volume financial systems
- Delivered features in an agile, test-driven environment, improving development speed and stability by **20%** through scrum practices
- Enhanced the code quality by **17%**, through JUnit testing, performing code reviews, and reducing code complexity
- Reduced the processing time by **35%** through **CI/CD** using **Jenkins** and **OpenShift** and maintained Autosys jobs with **shell scripting**
- Resolved production and batch workflow issues across four regions, improving system stability and reducing downtime by **4%**
- Leveraged future maintenance by documenting changes on **Confluence**, using **Bitbucket** for version control, and **Jira** for tracking

Software Testing Intern | Login2Xplore | Hyderabad, India

Sep 2020 – Feb 2021

- Tested the functionalities of the existing code (**JSON Powered Database**, **JavaScript**, **HTML**, **Bootstrap**) using **JUnit**
- Collaborated with development team for improved efficiency by **9%** by covering all edge cases

TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python, Shell Scripting, JavaScript, TypeScript

Backend: Fast API, Spring, Maven, Hibernate, Microservices, RESTful API, Node.js, JUnit, Agile Methodologies

Frontend: Streamlit, React, Angular, HTML, CSS, Redux

Databases: SQL (Oracle, SQL Server, MySQL, Postgres), NoSQL (MongoDB)

AI/LLM Integration & Orchestration: MCP (Model Context Protocol), OpenAI APIs, LangChain

Operating Systems: Linux, Unix, Windows, MacOS

DevOps: Continuous Integration/Continuous Deployment, Terraform, Packer, Networking Protocols

Tools: Google Cloud Platform, AWS (EC2, S3, IAM, RDS), GitHub, Jenkins, OpenShift, Docker, Tomcat, Postman, SonarQube, Jira

Certification: An Oracle Certified Professional (Java SE 11 Developer)

ACADEMIC PROJECTS

Nexus AI Chatbot Application | [GitHub](#) | **NodeJS**, **Express**, **ReactJS**, **MongoDB**, **OpenAI API**, **JWT**

- Developed a web application where users can chat with computer, leveraging capabilities of Artificial Intelligence to stimulate human like interaction and collaboration. Coded backend using Node.js, frontend using React and integrated with OpenAI API

Cloud-Ops Automation Platform | [GitHub](#) | **GCP**, **Terraform**, **Packer**, **GitHub Actions (YAML workflows)**, **DNS**, **Node.js**

- Architected a cloud-native backend using Node.js and Sequelize with CloudSQL, leveraging Pub/Sub-triggered serverless functions and autoscaling (MIG, load balancer, autoscaler) on GCP to achieve **99.99% availability**.
- Secured and deployed infrastructure using Terraform, Packer, and GitHub Actions CI/CD with VPC networking, firewalls, and IAM policies to ensure scalable and reliable operations.

Project Prism | [GitHub](#) | **Java**, **Angular**, **Oracle SQL**, **Spring Boot**, **Hibernate**, **Rest API**

- Fabricated a comprehensive project management tool, comprising of roles Manager, Developer, Tester with a centralized dashboard. Streamlined project tracking from backlog to completion with an organized Kanban board imbining user authentication