Sneha Yenduri
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EDUCATION

Master of Science in Information Systems, GPA: 3.75/4.0   **Dec 2025**
Northeastern University, Boston, MA

WORK EXPERIENCE

Software Engineer Intern, Oracle (Heatwave ML team)   **Jan 2025 – Jul 2025**
- Developed a machine learning based application that continuously **fetches logs** and detects **anomalies** in real-time
- Architected and implemented the log anomaly detection as an asynchronous application using Python, MySQL, Fast API, Streamlit
- Built a Root Cause Analysis Agent by integrating an **LLM** with this app using **MCP** (**Model Context Protocol**)
- Experimented and fine-tuned default parameters for **ML Model** to enhance anomaly detection accuracy for logs
- Configured the application to run automatically at scheduled intervals using systemd
- Conducted **end-to-end testing** and accelerated the root cause analysis process, approximately 5 times faster through this application

Graduating Teaching Assistant (Cloud Computing), Northeastern University   **Sep 2024 – Dec 2024**
- Mentored students in mastering cloud computing (**AWS**) by conducting tutorials, code reviews, with an emphasis on Linux-based applications and integration with **DevOps** workflows using **Shell Scripts** and **Terraform** (**IAC**).

Senior Software Engineer, Citibank (Fintech)   **Aug 2021 – Aug 2023**
- Designed innovative approaches to solve business problems using **Java, Spring Boot, SQL, Microservices, and REST APIs**
- Analyzed designs, & coded in a test-driven development in an **agile** cross functional team using **scrum** methodologies
- Enhanced the quality of existing code by **17%**, through Junit testing, performing code reviews, and reducing code complexity
- Mitigated the processing time by 35% through **CI/CD** using **Jenkins** and **OpenShift** and maintained Autosys jobs with **shell scripting**
- Handled **emergency bugs** while providing support during production deployments resulting in **4%** reduced downtime
- Leveraged future maintenance by documenting changes on **Confluence**, using **Bitbucket** for version control, and **Jira** for tracking

Software Testing Intern, **Login2Xplore**   **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 (object oriented programming), C, C++, Python, Shell Scripting, JavaScript, TypeScript, HTML, CSS
Frameworks: Fast API, Streamlit, Spring, Maven, Hibernate, Microservices, Git, RESTful API, Node.js, React, Junit, Agile Methodologies
Databases: SQL (Oracle, SQL Server, MySQL, Postgres), NoSQL (MongoDB)
AI/LLM Integration & Orchestration: 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: MERN AIChatBot]   **Jun 2024 – Jul 2024**
- 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
- **Technologies Used: NodeJS, Express, ReactJS, MongoDB, OpenAI API, JWT**

Cloud-Native Web Application Deployment and Automation [GitHub: Cloud Web Application]   **Feb 2024 – Apr 2024**
- Built a robust backend system for user operations using Node.js, SQL Server and Sequelize ORM
- Deployed it into **GCP** with use of **Terraform** for Infrastructure Management and automated using GitHub Actions, **CI/CD** pipelines
- Created Virtual Machine's using **packer** image and designed **serverless functions**, triggered by **Cloud Pub/Sub**
- Configured **load balancers** and **auto-scaling** to manage varying traffic loads effectively with minimal cost
- Implemented security using SSL certificates, IAM roles and policies, firewalls, and used customer-managed encryption keys.
- Integrated **Cloud SQL**, Google Cloud's operations suite with the application
- **Technologies Used: GCP, Terraform, Packer, GitHub Actions, SSL/TLS, SMTP, Pub/Sub, Serverless Functions, Storage, DNS**

Project Prism [GitHub: Project Prism]   **Mar 2024 – Apr 2024**
- 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 imbibing user authentication.
- **Technologies Used: Java, Angular, Oracle SQL, Spring Boot, Hibernate, Rest API**