Sneha Yenduri

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EDUCATION

Master of Science in Information Systems, GPA: 3.7/4.0   Expected **May 2025**

Northeastern University, Boston, MA

Courses: Program Structures and Algorithms, Application Engineering and Development, Data Management and Database Design, Network Structures and Cloud Computing, Web Design and User Experience

WORK EXPERIENCE

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 appropriate designs, developed code and performed **end-to-end testing** in an **agile** cross functional team using **scrum**
- 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**

- Gained experience in testing the functionalities of the existing code using **Junit**
- Grasped the requirements and continuously learned new technologies (JSON Powered Data B**ase, JavaScript, HTML, Bootstrap)** in this fast-paced environment by being self-motivated all the time
- 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: NodeJS, Spring Boot, Hibernate, Git, RESTful web services, Junit, Agile Methodologies

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

Operating Systems: Linux, Windows, MacOS

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

Tools: Google Cloud Platform (**GCP**), AWS, GitHub, Jenkins, OpenShift, Docker, Tomcat, SonarQube, Jira, Microsoft Excel

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

ACADEMIC PROJECTS

Nexus AI Chatbot Application (GitHub: MERN AIChatBot)   **Jun 2024 – Jul 2024**

- Developed an application where users can chat with computer, leveraging capabilities of AI to stimulate human like interaction
- Coded backend using Node.js, frontend using React and integrated with OpenAI API while implementing **JWT** for user authentication
- **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 **packer** image that is used in configuring Virtual Machine's 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 HTTPS with Google-managed SSL certificates, set IAM roles and policies, framed firewalls, and used customer-managed encryption keys (CMEK) for security. Integrated **Cloud SQL**, Google Cloud's operations suite with the application
- **Technologies Used: GCP, Terraform, Packer, GitHub Actions, SSL/TLS, SMTP, (Virtual Private Cloud – [Subnets, Firewalls], SQL, Logging, Pub/Sub notification, Serverless Functions, Storage, DNS, Load Balancers, Auto-scalers), Node.js, Rest API's, Postman**

Project Prism (Task Management System) [GitHub: Project Prism]   **Mar 2024 – Apr 2024**

- Implemented a comprehensive project management tool where my main contributions are in Frontend and Backend Integration, **Rest API** implementation, designing **Entity-Relationshi**p Diagram and state management using **Redux** by integrating with **React**
- **Technologies Used: NodeJS, Express, ReactJS, MongoDB, Redux**