Sai Ruchitha Hardageri Thammareddy

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PROFESSIONAL SUMMARY

Experienced Applications Developer with 3+ years of expertise in building robust, scalable web applications, with a strong understanding of software development best practices. Skilled in collaborating with cross-functional teams to deliver high quality solutions that meet client needs and business objectives. Proficient in Frontend, Backend technologies, DevOps tools.

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science | **GPA:** 3.77 /4.00 | Dean's List   *Expected December 2024*
Relevant Coursework: Advanced Algorithms, Cloud Computing, Programming for the Web, Database Systems, Software & Engineering Project Management, Computer Architecture and Organization, Operating Systems, C & Data Structures

Visvesvaraya National Institute of Technology, Nagpur, India
Bachelor of Technology in Electronics and Communication Engineering   *July 2016 – May 2020*

TECHNICAL SKILLS

Languages: C, Java, Javascript, Typescript, PL/SQL, Python
Web Technologies: HTML, CSS
Frameworks: Spring Framework, REST APIs, React
Platforms and IDEs: UNIX/Linux, Windows, Ubuntu, Eclipse, Visual Studio Code, Intellij IDEA, Oracle Cloud, SwaggerAPI
Tools: Weblogic, Tomcat, Postman, Oracle SQL, MySQL, MongoDB
Others: JDBC, Gradle, Maven, Docker, Kubernetes, GitHub, Jenkins CI/CD, Jira, Agile methodologies, Microsoft Office

PROFESSIONAL EXPERIENCE

Binghamton University, *Graduate Teaching Assistant* | Binghamton, NY   *August 2023 – January 2024*
- Guided 35 students through lab sessions, quizzes, and assignments, fostering deeper comprehension of curriculum.
- Facilitated communication through emails and conducting office hours to elevate students understanding of course concepts, offered guidance in **C** and **Java** programming, resulting in a 15% improvement in student scores statistics.

Oracle, *Applications Developer* | Pune, India   *September 2020 – December 2022*
API Gateway service: A microservice used as a single point of entry for multiple microservices, managing and routing incoming API requests while providing authentication and authorization within a distributed system.
- Created multiple **REST APIs** for the optimizations and software maintenance across the backend codebase.
- Architectured and implemented external Single Sign-On (**SSO**) and SAML-based authentication, resulting in an 28% decrease in unauthorized access and bolstering overall security measures.
- Delivered a seamless Single Sign-On (SSO) solution for a **multi-tenant cloud** environment, cutting login time by 30%.

Oracle Banking Extensibility(OBX) Workbench: A platform facilitating the creation of extensions and addition of new features to existing banking services and user interfaces, enhancing customization and flexibility.
- Streamlined the generation of relevant **SQL** scripts, ensuring seamless integration of artifacts with the main application resulting in a 35% increase in toolkit utilization.
- Conducted workshops for over 100 developers and consultants to leverage the OBX toolkit for faster development.

Configuration service: A microservice tasked for managing and distributing configuration settings across the various microservices in the Oracle Banking Microservices Architecture.
- Orchestrated setup and maintenance of configuration parameters, leveraging **Flyway** migrations to streamline database schema changes, halving deployment errors from 3 to none per deployment, boosting software deployment efficiency.
- Collaborated with cross-functional teams to analyze requirements and effectuated tailored configuration solutions.

PROJECT EXPERIENCE

MongoDB, Web Server, and SDN Controller Integration | Independent Project   *September 2023 – November 2023*
- Containerized **MongoDB** and web server with **Docker**, simplifying deployment, ensuring services scalability, portability.
- Deployed database and web application as **Kubernetes** pods, exposing services for scalable Chat application deployment.
- Developed **Python** scripts to populate binary tree topology in Mininet, configured SDN controller, and implemented MAC learning controllers, leading to a 40% decrease in network flooding incidents.

Feature-rich and Responsive Spreadsheet Application | Independent Project   *June 2023 – August 2023*
- Engineered efficient server-side code with Web Services and REST APIs, achieving response times under 100 milliseconds.
- Integrated MongoDB, optimizing Spreadsheet Application data management, improving scalability & performance.

Retail Business Database Management System | Group Project   *April 2023 – May 2023*
- Built a comprehensive menu-driven Java application with **JDBC** connectivity, amplifying database interaction efficacy to 100%, leveraging efficient query processing techniques.
- Automated updates, ensured integrity with stored procedures and triggers, streamlining database maintenance for efficiency.