

# Sai Ruchitha Hardageri Thammareddy

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## Education

**Binghamton University, State University of New York**

**Jan 2023 - Dec 2024**

*Master of Science in Computer Science*

3.77/4.0

**Coursework:** Data Structures and Advanced Algorithms, Cloud Computing, Programming for the Web, Database Systems, Software and Engineering Project Management, Computer Architecture and Organization, Operating Systems

## Technical Skills

**Software Development Life Cycle (SDLC)** with experience in **Agile** and **Scrum** methodologies

**Programming Languages:** Core Java, Java, C, C++, Python, JavaScript, TypeScript, PL/SQL

**Backend:** Spring Framework, Spring Boot, Spring Cloud, Microservice Architecture, JDBC, JPA, REST API

**Frontend:** HTML, CSS, XML, ReactJS, Bootstrap

**Databases:** MySQL, MongoDB, Oracle SQL, NoSQL, PostgreSQL

**CI/CD:** Gradle, Maven, Weblogic, Tomcat, Jenkins

**Others:** Docker, Kubernetes, Git, Github, Gitlab, JIRA, Confluence, SwaggerAPI, Oracle Cloud, GCP, Firebase, Linux

## Work Experience

**Binghamton University Graduate Teaching Assistant — Binghamton, NY**

**Aug 2023 - Jan 2024**

- Guided 35 students through lab sessions, quizzes, and assignments, leading to a 20% improvement in overall performance.
- Provided individualized support via office hours and emails, fostering comprehension of programming concepts in C& Java.

**Oracle, Applications Developer — Pune, India**

API-Gateway Service:

**Nov 2021 - Dec 2022**

- Built a Java authentication service for a fintech platform, integrating **Active Directory** and cloud **IAM** users, boosting authentication flexibility by 30%, and strengthening security and compliance capabilities across the organization.
- Designed and executed external **Single Sign-On (SSO)** and **SAML-based** identity management, achieving a 40% decline in unauthorized access and reinforcing overall security measures, guaranteeing adherence to industry standards.
- Delivered a seamless **SSO** solution for a **multi-tenant cloud** environment, cutting average login time from 20 seconds to 9 seconds, enhancing user experience and optimizing system performance.
- Led **API integration**, facilitating seamless communication between front-end and back-end via **REST APIs**, advancing system interoperability and handling over 500 API requests per second.

Oracle Banking Extensibility:

**Sep 2020 - Oct 2021**

- Orchestrated setup and maintenance of configuration parameters, leveraging **Flyway** migrations to simplify database schema changes, minimizing deployment errors from 3 to zero per deployment.
- Conducted thorough code reviews and applied **Test-Driven Development (TDD)** practices using **JUnit**, increasing test coverage from 55% to 90% and significantly refining code quality and maintainability.
- Collaborated effectively with cross-functional teams and adopted **CI/CD** via **Jenkins**, accelerating the development process and decreasing post-development change requests from 12 to 2, ensuring timely completion of product features.
- Utilized **JIRA** and **Confluence** for project tracking, documentation, and sprint management, augmenting work productivity by 15% through better task prioritization and smooth execution of agile development cycles.
- Guided over 100 developers and consultants through workshops on product installations and new platform technologies, resulting in a considerable reduction in onboarding time and enhanced adoption success.

## Projects

**Cloud-Native Chat Interface**

**Sep 2023 - Nov 2023**

- Containerized MongoDB and web server using **Docker** and deployed them as **Kubernetes** pods, establishing scalable, portable, and efficient deployment of a chat platform.
- Developed **Python** scripts to populate binary tree topology in Mininet and implemented MAC learning controllers, reducing network flooding incidents by 40% and improving overall network efficiency.

**Excel-Like Spreadsheet Tool**

**Jun 2023 - Aug 2023**

- Engineered efficient server-side code with **Web Services** and REST APIs, achieving response times under 100 milliseconds.
- Integrated **MongoDB**, streamlining data management within the spreadsheet system, boosting scalability & performance.

## Leadership and Achievements

- Mentored 4 summer interns at Oracle, providing technical guidance in addition to organizing networking activities.
- Published 'IMU-based Tracking of a Person using NARX Algorithm in GPS-denied Areas' in IEEE ICMICA 2020.