

RAKESH PALLE

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EDUCATION

Master of Science in Computer Science, SUNY Binghamton University Expected December 2024
Cumulative GPA: **3.97/4.00**

Bachelor of Technology in Information Technology, Kakatiya University 2017 - 2021

EXPERIENCE

Software Developer, Our National Conversation | Remote - Los Angeles, CA February 2024 – August 2024

- Optimized APIs to enhance news retrieval based on geolocation, and unit tested them using Postman, improving overall performance by 20%.
- Collaborated with the COO and engineering teams to communicate technical strategies, ensuring successful production deployments.
- Resolved production issues with prompt and sustainable solutions, maintaining smooth system operations.
- Created 'Opinions' functionality, enabling users to share their thoughts or concerns at any time which increased user satisfaction by over 40%.

Graduate Teaching Assistant, Binghamton University | Binghamton, NY August 2023 – Present

- Evaluated student projects and assignments using a Python auto-grader by integrating GitHub submissions, providing comprehensive feedback to a class of 60.
- Conducted office hours to assist with various programming languages such as Java, Haskell and Prolog.

Associate Software Engineer, Accenture | Hyderabad, India September 2021 – December 2022

- Enhanced the website of a leading U.S. based telecommunications client by implementing new features using JavaScript, HTML, and CSS.
- Engineered an API to retrieve customer credit history from Equifax, boosting data-fetching efficiency by 20%.
- Integrated REST APIs and microservices to drive scalability and optimize system performance.
- Partnered with the production team to manage scheduled maintenance of production and development servers, resulting in a 15% increase in user satisfaction due to uninterrupted service.
- Collaborated with the Database Administrator to execute SQL scripts for creating and modifying database tables, improving data accessibility by 12 to 15%.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML, CSS
Database: Oracle, MySQL, SQL Server, Cassandra
Frameworks: Spring Boot, Hibernate, React, NumPy, Pandas
Additional: Git, AWS, Azure, DevOps, Jenkins, Scrum, Agile, Docker, Kubernetes, VS Code
Relevant Coursework: Operating Systems, Artificial Intelligence, Design Patterns, Cloud Computing, Cybersecurity, Software Engineering

PROJECTS

Tree-walk Interpreter June 2024 – September 2024

- Developed an interpreter for a language, implementing core features such as lexical analysis and syntax parsing.
- Integrated advanced programming concepts like control flow, functions, closures, and variable scoping using object-oriented design, ensuring accurate error handling throughout the interpretation process.

Simulator for Out of Order Processor September 2023 – December 2023

- Simulated an out-of-order execution processor, integrating advanced architecture like LS Queue and BTB.
- Optimized CPU usage, resulting in a 75% increase in instructions per cycle.

Retail Business Management System June 2023 – July 2023

- Designed and implemented a comprehensive retail database management system using Oracle and PL/SQL, capable of managing more than 100 datasets for inventory and sales tracking.
- Integrated complex queries to improve data reporting efficiency and functionality.