Rahul Bagul

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EDUCATION

Master of Science, Computer Science   **Aug 2023 – May 2025**
Purdue University, Fort Wayne, Indiana

- Relevant Coursework: Algorithm & Data Structures, Operating Systems, Deep Learning, Cryptography and Network Security

Bachelor of Engineering, Information Technology   **Aug 2017 – May 2021**
Sinhgad College Of Engineering (Pune University), Pune, India

- Relevant Coursework: Operating System Architecture and Design, Database Management, Computer Networks, Digital Electronics

TECHNICAL SKILLS

Programming Languages C++, Java, Python, JavaScript, C#, Apex, Shell Scripting
Frameworks   Express, React, Spring boot
Databases   MySQL, PostgreSQL, MongoDB
Other Skills   Docker, Git, Terraform, AWS, REST API, Snowflake, Unity, Node.js, Google Cloud, STL, VS Code, Linux

WORK EXPERIENCE

Salesforce, Data and AI Intern   **May 2024 – Aug 2024**
Snowflake, San Mateo, CA

- Utilized Snowflake's LLM functions for integration with Salesforce, conducting advanced root cause analysis on logs, improving error detection and resolution using models like LLAM3.2 and Mistral for enhanced log processing.
- Implemented Retrieval Augmented Generation (RAG) and fine-tuned LLMs to automate Salesforce Apex test class creation, optimize error log analysis, and address security vulnerabilities. ML models used for anomaly detection and forecasting.
- Designed and managed databases, schemas, tables, and views in Snowflake to optimize data handling and transformation, writing complex SQL queries to ensure clean, usable datasets for diverse applications.

Software Developer, Salesforce   **June 2021 – July 2023**
Snowflake, Pune, India

- Integrated REST and SOAP APIs for seamless data exchange between Salesforce and external systems, implementing security protocols such as OAuth 2.0 and encryption, achieving a 20% increase in operational efficiency through streamlined automation.
- Developed and implemented efficient asynchronous and synchronous processing techniques, utilizing data structures and system design to handle large rows, enhancing system performance, and resulting in a significant improvement in user experience.
- Created custom applications to connect the Salesforce platform with third-party applications using JWT for secure token-based authentication and OAuth 2.0 for authorization, ensuring secure access and data integrity across systems.
- Designed advanced analytical dashboards using complex SQL queries for data extraction and transformation, enabling real-time insights and improved decision-making for business stakeholders.
- Developed and optimized responsive web applications using modern front-end frameworks (React, LWC) and implemented CSS and Bootstrap to enhance UI/UX, leading to a 15% increase in user engagement and satisfaction across platforms.

PROJECTS

GroupSnap

- Developed a full-stack web application using React, Express, JWT, and Postgres, enabling users to anonymously post, vote on, and delete photos within group environments while maintaining secure authentication and authorization.
- Utilized React's Context API for state management and implemented asynchronous photo upload handling. Designed and implemented a scalable system architecture to manage user roles, content moderation, and secure identity handling.

Faculty Information Management System

- Developed a server-client system for college administrators, utilizing MySQL and JDBC for robust database management, including complex SQL queries, data relations, and joining techniques.
- Collaborated with a team to integrate various system components, ensuring seamless operation across the college network.
- Created a user-friendly interface with JavaFX and Java, improving accessibility for all users.

CERTIFICATES

- AWS Certified Cloud Practitioner
- SnowPro Core Certification (Snowflake)
- Certified Salesforce Developer (Platform Developer - I)