Manas Zagade

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Education

Indiana University — Bloomington, IN
Master of Science in Computer Science — 08/2022 - 05/2024
Coursework: Object-oriented Software Development, Design Patterns, Applied Algorithms, Data Mining, Software Engineering, Human-Robot Interaction, Cyber Security, Computer Networks, Information Visualization

University of Mumbai — Maharashtra, India
Bachelor of Engineering in Information Technology — 08/2017 - 05/2021
Coursework: Data structures, Analysis of Algorithms, Advanced database management technology, Automata theory, Artificial Intelligence, Web Development, Relational databases, Mathematics

Technical Skills

Programming/Scripting: C++, Java, HTML5, SQL, Python, ABAP, SAP Business Objects
Methodologies: ETL, Full-stack Development, Testing, Linux, Agile
Databases: MySQL, PostgreSQL, SQL, S4 HANA
Web Development: HTML, CSS, JavaScript, TypeScript, Django, Flask, React, REST API
Developer Tools: Git, Docker, Postman, VS Code, JIRA, Power BI

Experience

Associate Software Engineer — 06/2021 - 03/2022
Accenture — Mumbai, India

- Moved data from the traditional ECC system to the latest S4 HANA platform by transitioning from traditional methods to IDoc configuration for ETL processes on **8 Material Master tables** improving job runtime and ensuring data integrity and consistency with SAP Data Services
- Collaborated with cross-functional teams to migrate **25% (approx. 100,000 records)** of Material Master records by configuring and mapping IDocs for data migration, reducing manual effort by **30%**
- Resolved access issues in the production environment through optimized methods, resulting in a **33%** improvement in job runtime
- Developed transformations and logic to generate client-specific reports, facilitating progress tracking and communication during data migration. These reports efficiently captured key success metrics, offering valuable insights to stakeholders. Notably, they reduced the need for in-person issue explanations by almost **30%**, enhancing efficiency and communication

Projects

Roll Cart | *Python, MySQL, Docker, Flask, Azure, Git*

- Developed a comprehensive grocery shopping platform using Python and React, Users can create and compare grocery lists across multiple retailers, followed by real-time, location-based suggestions for the nearest and most cost-effective stores
- Led backend API development using Flask framework and integrated APIs from **4+** retailers for live product and pricing data
- Established Azure CI/CD pipeline, reducing deployment time by **30%** and ensuring consistent and reliable deployments
- Decreased API fetch latency for each retailer and improved price comparison efficiency by an average of **40%** through parallel API calls to retrieve data from retailers

Venue Finder | *Python, React, MySQL, Flask, Git, JIRA*

- Engineered and maintained the backend for Venue Finder booking website using Python and Flask, collaborating with a **2-person** backend team, collaborating with a 3-person frontend team and a client. Successfully delivered all project milestones across **4 sprints**, ensuring timely completion with client expectations
- Devised sprint plans and task divisions using Jira, conducting **twice-weekly** meetings to review progress and address challenges with the backend, frontend teams, and stakeholders
- Enhanced backend APIs using Flask, created detailed documentation of response formats and codes to achieve **100%** test case coverage, facilitating effective validation by both frontend and backend teams
- Implemented robust login functionality on the backend, integrating JWT authentication for enhanced security and OAuth options for seamless sign-in via Google

Soccer IQ | *Python, React, MySQL, Flask, Git, Machine Learning*

- Crafted a soccer scouting application using Python and React to analyze over **1000** games. Utilized Python for backend data processing and React for the frontend, delivering a seamless user experience with intuitive interfaces and interactive visualizations
- Processed, cleaned, and mined data to develop a dashboard feature showcasing team statistics. offering insights into team performance during games by displaying key events such as goals, red cards, and penalties on a timeline
- Trained machine learning model on the data to create an expected goals (xG) model for players. Leveraged this model in 3 key features: Formations, Dream Team selection, and team/league/country-based expected statistics
- Offered valuable insights to Scouters, fans, and team coaches for strategic decision-making and performance evaluation across various aspects of the game