Gaurav Mandal

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Experience

Neodove **Dec 2023 – Present**
Software Development Engineer *Bengaluru, India*

- Implemented **Redis as a caching Database to accelerate read-heavy API operations** , coupled with pagination for reports that can contain more than a million records. These strategies collectively facilitated and optimized the API migration from v1 to v2, resulting in a significant **35%** enhancement in performance
- Implemented the **Factory Method Pattern and functional programming techniques** such as immutability, higher-order functions, and functional composition, along with libraries like lodash, to drastically reduce the code size during the migration from v1 to v2 APIs. This led to an impressive **60%** reduction in code, streamlining the development process and enhancing maintainability
- Implementing **automated lead assignment** drastically reduced lead distribution efforts, slashing manual workload for both admins and managers by **95%**, driving significant **efficiency gains**.
- Implemented **Message Queue (RabbitMQ)** infrastructure, enhancing the codebase with both batch and stream processing capabilities, optimizing data flow and improving system performance.
- Developed **real-time multiple graphs count display** within a one-year window, leveraging **PostgreSQL and MongoDB** in a data-intensive application environment. This initiative significantly enhanced data visualization capabilities, providing actionable insights for informed decision-making.
- **Proficiently managed servers and databases** to ensure optimal performance, minimal downtime, and successful deployment of product releases on production servers. Consistently met sprint release deadlines without any service interruptions, demonstrating effective planning and execution.

Unthinkable Solution **June 2023 – December 2023**
Software Development Engineer Intern *Remote, India*

- Implemented **In collaboration with a Lead Engineer**, designed the foundational architecture of our loan-giving website, focusing on security, authentication, and authorization. Utilized bcrypt encryption for password security and strategically organized data across multiple tables for efficient management and scalability.
- Spearheaded a **collaborative effort with a team of four members to deliver the project's initial version within a tight deadline of just one month**. Through effective coordination and teamwork, we achieved successful implementation, laying a solid foundation for subsequent project phases
- Utilized Jest to meticulously craft unit tests for our Core APIs, attaining an **impressive test coverage of over 85%**. These tests were instrumental in verifying the functionality and reliability of our APIs, ensuring robustness and stability in our system

Projects

SonicScape | *ReactJs, Mongodb, Nodejs, Expressjs* | Link to Project **May 2023**

- Developed an error handler with distinct identification for operational and programmatic errors, ensuring clarity in API usage. This approach enables users to recognize and rectify incorrect payloads, enhancing overall usability and developer experience.
- Designed and implemented a secure authentication and authorization system, using JWT tokens to enhance user security and protect sensitive data.
- Expertly manage incoming Stripe webhooks in the backend to seamlessly process orders and ensure transaction security.

Education

St Xavier's College, Ranchi **June 2020 - June 2023**
Bachelor of Computer Applications *Ranchi, India*

Coursework: DSA — Computer Networks — Operating System — Database Management System

Achievements

- Secured prestigious Rank 1 in AccioSat out of 10,000+ participants, showcasing exceptional skills and dedication.
- Achieved top 10% ranking across all of LeetCode, demonstrating proficiency and excellence in problem-solving.
- Successfully tackled over 500 DSA problems, demonstrating strong problem-solving abilities.

Technical Skills

Programming Languages: Java, JavaScript, TypeScript, HTML, CSS
Database Technologies: PostgreSQL, MongoDB, MySQL
Technologies: Node.js, ReactJs, Redux, Angular, RabbitMQ, Redis, AWS, Docker, Nginx
Frameworks & Libraries: ReactJs, Redux, Angular, RxJS, Git, Jest, Tailwind, Lodash