Mayank Madan

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LinkedIn | GitHub

SKILLS

Java, JavaScript, Typescript, Spring Boot, Angular, GraphQL, HTML, CSS, SCSS, Bootstrap, MySQL, PWA, Junit, Git, AWS Serverless technologies, Azure Devops, Docker, Effective Communication, Problem solving

EXPERIENCE

Senior Product Engineer, Tata Consultancy Services   June 2019 – Nov 2022
Innovation
- Achieved 90% reduction in the utilization of static image filters within the UI framework by developing multi-coloured, resizable, and movable shape masks in widget format.
- Improved low-code platform built application's success rate by 50% through the implementation of a syntax and semantics verifier integrated into the CI pipeline and VSCode as a language server.
- Enhanced low-code intent-driven digital experiences development by leveraging model-driven engineering principles.

Enhancement
- Led the migration from the project's REST architecture to GraphQL, resulting in a 27% enhancement in inter-micro-service communication efficiency.
- Enriched the project's UI library with diverse widgets, elevating interactive and visualization capabilities by 20%.
- Increased the application's user engagement by more than 25% through the integration of in-app and device-level notifications and offline experience.

PROJECTS

Trivia Titans – A multiplayer Trivia Game   May 2023 – Aug 2023
- Established an email based invite-only game lobby with waiting room feature to manage secure access.
- Managed UI development and modules integration for the application.

Coder Gate – Code Quality Bot for GitHub   Jan 2023 – Apr 2023
- Developed a tailored GitHub action for in-depth static code analysis of repository code changes.
- Engineered an automated pull request resolution system, enabling configurable actions based on predefined quality metrics.
- Produced actionable insights tailored to repositories and contributors by analyzing trends.

INTERNSHIPS

Research Intern, Lab2Market   Aug 2023 – Dec 2023
- Conducting ongoing research to enhance software quality, mitigate risks, and streamline development processes, increasing project success.

Teaching Assistant and Marker, Dalhousie University   Aug 2023 – Dec 2023
- Instructing and assessing graduate students in the CSCI 5308 – Advanced Concepts in Software Development course.

EDUCATION

Dalhousie University   Jan 2023 – Apr 2024
Masters of Applied Computer Science: 4.2/4.3 (Current)

The NorthCap University   Jul 2015 – Apr 2019
Bachelor of Technology in Computer Science: 8.04/10