Mayank Madan

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SKILLS

Frontend: JavaScript, Typescript, Angular, ReactJS, HTML, CSS, SCSS, Bootstrap
Backend: Java, Spring Boot, NodeJS, JUnit, GraphQL
Database: MySQL, PostgreSQL, MongoDB
DevOps: Docker, Kubernetes, Azure DevOps, AWS Serverless, Continuous Integration Continuous Development(CICD)
Soft: Adaptability, Teamwork, Collaboration, Mentoring, Supervising, Prioritization.
Misc.: Linux, Git, Agile, Progressive Web Apps(PWAs), IDE Extension Development, Test Driven Development(TDD).

EXPERIENCE

Software Developer, Dispension Industries Inc.   Jan 2024 – Present
- Optimized codebase by abstracting operation logic and unifying kiosk UI, cutting deployable size by 20%.
- Sped up kiosk setup time by 30% using automated shell scripts for rapid, error-free server configuration.
- Established thorough end-to-end testing procedures, resulting in a 15% boost in testing phase efficiency.

Senior Product Engineer, Intelligent Service Network, Tata Consultancy Services   June 2019 – Nov 2022
- Boosted user engagement by 25% through real-time, device-native notifications and offline experiences.
- Elevated team's development efficiency by 40% via language server for an internal, high-level language, integrated into VsCode IDE, resulting in a faster, error-free experience.
- Achieved 27% inter-microservice communication efficiency boost by migrating legacy APIs to GraphQL.
- Led a team of 5 developers to build a Progressive web app generator module for a no-code platform.
- Improved internal framework visualization capabilities by over 20% with widgets like dynamic forms.

INTERNSHIP

Mitacs Accelerate research intern, Lab2Market   Aug 2023 – Dec 2023
- Analysed 10+ open-source code assessment tools like PMD, Checkmarx within a sandbox environment to assess their effectiveness across varying software development intensities.
- Performed 50+ customer discovery interviews with professionals to pinpoint gaps in quality assurance.

Teaching Assistant and Marker, Dalhousie University   Aug 2023 – May 2024
- Supervising, instructing and assessing 150+ graduate students in Advanced Software Development course.

PROJECTS

Coder Gate – Code Quality Bot for GitHub (https://github.com/MayankMadan97/coder-gate)
- Crafted a tailored GitHub action for in-depth code analysis, validated across over 50 Java repositories.
- Designed automated Pull Request resolution, enabling configurable actions based on 20+ predefined metrics.
- Generated and visualized 10+ actionable insight charts tailored toward repository owners and contributors.

Trivia Titans – Multiplayer Trivia Game (https://github.com/MayankMadan97/TriviaTitans)
- Established an email-based invite-only game lobby with a waiting room feature to manage secure access.
- Spearheaded UI development and over 10 module integrations for the serverless cloud application on AWS.

Newsly – Personalized Newsletter service (https://github.com/MayankMadan97/Newsly)
- Developed a newsletter broadcast pipeline using user-subscribed SNS topics, linked to specific S3 buckets.
- Automated scheduled broadcasts from an SQS backlog to newsletter subscribers using EventBridge.

EDUCATION

Dalhousie University	The NorthCap University
Masters of Applied Computer Science: 4.19/4.3	Bachelor of Technology in Computer Science: 8.04/10