

Mayank Madan

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SKILLS

Frontend: JavaScript, Typescript, Angular, HTML, CSS, SCSS, Bootstrap

Backend: Java, Spring Boot, JUnit, REST, GraphQL, Spring JPA

Database: MySQL, MongoDB, Web Ontology Language (OWL) modelling

DevOps: Docker, Kubernetes, Azure DevOps, AWS Serverless, Continuous Integration Continuous Development(CICD)

Others: Git, Progressive Web Apps, Test Driven Development, Problem Solving, Effective Communications

EXPERIENCE

Senior Product Engineer, Tata Consultancy Services

June 2019 – Nov 2022

- Boosted low-code platform-built app success rate by 50% via development time syntax verifier in VsCode.
- Achieved a 27% efficiency boost by migrating REST to GraphQL for inter-micro-service communication.
- Improved project framework visualization capabilities by 20% with custom widgets and utilities.
- Boosted user engagement by over 25% through real-time device notifications and offline experiences.

INTERNSHIPS

R&D Software Developer, Dispension Industries

Jan 2024 – Present

- Engineering dynamic user interfaces for diverse beverage and prescription drug dispensing kiosks.
- Conducting targeted tests on hardware subsystems, including Regular, Palm Scanner, RFID, CherryPi, etc., and integrated dispensing kiosk systems.

Teaching Assistant and Marker, Dalhousie University

Aug 2023 – Present

- Supervising, instructing and assessing graduate students in CSCI 5308 - Advanced Software Development.

Research Intern, Lab2Market

Aug 2023 – Dec 2023

- Conducting customer discovery research to identify industry gaps in software quality management.
- Received a \$15,000 grant scholarship to perform up to 100 customer discovery interviews with industry experts assessing the proposed idea's market adoption feasibility.

UX/UI Developer, Feasopt.AI

May 2018 – Jul 2018

- Developed wizard-based truck and load registration modules for authentication and load authorization.
- Constructed an admin portal to configure truck-load mapping algorithm parameters for route modulation.

Software Developer, ID Tech Solutions Pvt Ltd

May 2017 – Jul 2017

- Improved reader algorithm to eliminate RFID tag redundancies in a closed environment.
- Developed an exhibition website with registration, authentication, and profile management modules.

PROJECTS

Trivia Titans – Multiplayer Trivia Game

May 2023 – Aug 2023

- Established an email-based invite-only game lobby with a waiting room feature to manage secure access.
- Managed UI development and multi-module integration for the cloud-native application.

Newsly – Personalized Newsletter service

May 2023 – Aug 2023

- Set up SNS topics, linked to specific S3 buckets, and managed newsletters with SQS broadcast backlog.
- Automated scheduled broadcasts from an SQS backlog to newsletter readers using EventBridge.

Coder Gate – Code Quality Bot for GitHub

Jan 2023 – Apr 2023

- Engineered a tailored GitHub action for automated in-depth static code analysis of repository code changes.
- Built automated pull request resolution, enabling configurable actions based on predefined metrics.
- Generated and visualized actionable insights tailored to repositories and contributors by analyzing trends.

EDUCATION

Dalhousie University

Masters of Applied Computer Science: 4.13/4.3 (Current)

Jan 2023 – Present

The NorthCap University

Bachelor of Technology in Computer Science: 8.04/10

Jul 2015 – Apr 2019