KHUSHI UPADHYAY

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EXECUTIVE SUMMARY

Software engineer with experience in both back-end and front-end web development. Skilled in building scalable web applications, optimizing system performance, and integrating modern frameworks. Adept at collaborating with cross-functional teams remotely to develop efficient, user-centric solutions. Passionate about solving problems and continuously improving web systems.

EDUCATION

Bachelor of Computer Engineering (Specialized Honours)   *Sep 19 – Apr 24*

    Certificate in Technology Entrepreneurship (BEST)   *Sep 19 – Apr 24*

York University, Toronto, Canada (Lassonde School of Engineering)

TECHNICAL SKILLS

Programming Languages & Back-End: Java 11, JavaScript, TypeScript, C++, C, Python, Golang, Node.js, Express, Spring, REST API, SQL

Front-End Technologies: HTML, CSS, React, Next.js, Angular, Vue.js

Tools, Libraries & CMS: Git, GitHub, JIRA, AWS, Azure, Docket, WordPress, Kubernetes, Postman, Selenium, Cucumber, Eclipse,ActiveMQ, Jupyter

EXPERIENCE

Software QA Engineer at Quarterhill   *Jul 24 - present*

- Collaborate in **Agile** ceremonies, working with developers to analyze features, review technical designs, and implement software improvements.
- Develop and modify backend test scripts using **Java** and **PL/SQL**, validating system functionality and API performance.
- Automate testing processes with **Selenium and Cucumber** in **Eclipse**, reducing manual efforts and increasing test coverage.
- Debug and troubleshoot backend services, collaborating with developers to optimize **Java-based** applications.
- Execute system-level testing on **Linux environments**, ensuring software stability and reliability.
- Participate in code reviews, assisting with bug fixes and enhancements for improved software quality.
- Present test results and feature demonstrations to clients, ensuring alignment on development progress and feedback integration.

FrontEnd Developer at YuRide   *Sep 22 – Dec 22*

- Developed an **Android application** using **Java** and **Android Studio**, focusing on front-end development and UI/UX optimization.
- Optimized application performance by **15%** through efficient coding practices and resource management.
- Implemented **ReactJS** for dynamic front-end components, enhancing interactivity and reducing page load times.
- Collaborated in an **Agile** team, contributing to sprint planning, stand-ups, and backlog refinement.
- Used **GitHub, Miro, Figma, and Microsoft Teams** for project collaboration and version control.

PROJECTS

Responsive Portfolio Website   *Oct 2024*

- Built a fully **responsive** portfolio website from scratch using **HTML, CSS, and JavaScript**, later migrating to **React (Next.js)** for improved performance and scalability.
- Integrated **Microsoft Azure AI** to develop a chatbot using **GPT-3.5 API**, enhancing site interactivity.
- Deployed the application using cloud infrastructure, showcasing **full-stack development** and **modern web technologies**.

RC Model Aircraft Communication System (*AIAA Design, Build, and Fly*)   *Sep 23 – Apr 24*

- Developed an **RC communication system** for a model aircraft using **Raspberry Pi**, implementing **real-time control for servos and logging telemetry data**.
- Built a **multithreaded software architecture** in **Python** to handle concurrent tasks, including **PPM signal processing and sensor data retrieval**.
- Integrated servos, ESC, and sensors with Raspberry Pi, optimizing control signals for smooth aircraft operation.
- Conducted **system testing, debugging, and performance validation,** ensuring real-time processing efficiency.

AWARDS / CERTIFICATIONS

- **Microsoft Azure Fundamentals AZ-900** (Dec 2024)
- **AWS Developer Associate DVA-C02** (In-progress)
- **York University Faculty Associate Graduate Award** (2023-24 school year)