KHUSHI UPADHYAY

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EXECUTIVE SUMMARY

Proficient in front-end development using modern frameworks like React and Vue. Skilled in building responsive and high-performance web/mobile interfaces, with an interest in leveraging AI tools for code generation and optimization. Knowledgeable in version control and collaborative development environments.

EDUCATION

Bachelor of Computer Engineering (Specialized Honours)   *Sep 19 - Apr 24*
Certificate in Technology Entrepreneurship (BEST)

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

TECHNICAL SKILLS

Programming Languages: Java, Java Script, TypeScript, HTML, CSS, C++, Spring, Python, Verilog, MATLAB

Database Management: SQL, MYSQL

Other tools/Libraries: VS Code, Jira, AWS, Azure, REST API, Next.js, React, Jupyter, Arduino, Eclipse, Quartus, WordPress, Git, GitHub, Google Collab, Kubernetes

EXPERIENCE

Software QA Engineer at Quarterhill   *Jul 24 - present*
- Collaborate on both Roadside and Backoffice operations in the tolling industry, enhancing customer experience and optimizing software performance.
- Present ideas and testing results to clients twice a week, ensuring alignment on project progress and feedback.
- Conduct rigorous testing using PL/SQL, PostgreSQL, and Postman on the ongoing 405expresslanes software, contributing to improved user experience.
- Develop and automate testing scripts with Cucumber and Selenium using Eclipse, reducing manual testing time and increasing efficiency.
- Work closely with the development team to provide quality assurance insights and contribute to the continuous improvement of development practices.

FrontEnd Developer at YuRide   *Sep 22 – Dec 22*
- Utilized Java and Android Studio to develop an Android application, focusing on front-end development within an Agile environment.
- Enhanced app performance by 15% through code minification and resolved issues with browser developer tools.
- Achieved a 20% reduction in page load speeds and improved conversion rates by implementing ReactJS.
- Collaborated on application design and code using Miro, Figma, Microsoft Teams, GitHub, and Git.

PROJECTS

Responsive Portfolio Website   *Oct 2024*
- Developed a fully responsive portfolio website from scratch using HTML, CSS, and JavaScript, featuring a single page design with animations for enhanced user experience.
- Migrated the project to a React application using Next.js, enabling easy cloud deployment and additional transition effects.
- Integrated AI technology on Microsoft Azure, including chatbot utilizing the GPT 3.5 API, to enhance interactivity.
- Demonstrated a comprehensive understanding of web development fundamentals, responsive design principles, and modern deployment practices.

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 from external.
- Implemented multithreaded software architecture in Python to handle concurrent tasks like PPM signal processing.
- Executed system testing a validate performance, error handling, and power recovery under various operational conditions.
- Integrated servos, ESC, and sensors with Raspberry Pi, optimizing control signals for smooth aircraft operation.

AWARDS / CERTIFICATIONS

- Microsoft AZ-900 Certification
- Associate Java Certification 1Z0-808
- York University Faculty Associate Graduate Award in the 2023-24 school year