

KHUSHI UPADHYAY

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EXECUTIVE SUMMARY

Software engineer with experience in software development, automation, and cloud technologies. Proficient in building scalable web applications, optimizing system performance, and integrating modern frameworks. Adept at collaborating with cross-functional teams to develop efficient, user-centric solutions. Passionate about problem-solving and continuously improving software systems.

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: Java11, Java Script, TypeScript, HTML, CSS, C++, C, Spring, Python, Verilog, MATLAB

Database Management: SQL, MYSQL

Other tools/Libraries: VS Code, Django, Express, Git, Angular, AWS, Azure, Golang, REST API, Next.js, Node.js, React, Jupyter, GitHub, Google Collab, Eclipse, Kubernetes, WordPress, ActiveMQ, Vue, Quartus, JIRA. Arduino

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 performance and working with Linux-based systems for system-level testing.
- 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 by 10% 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 to 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 Azure Fundamentals AZ-900
- AWS Developer Associate DVA-C02 (In-progress)
- York University Faculty Associate Graduate Award in the 2023-24 school year