# KHUSHI UPADHYAY

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## EXECUTIVE SUMMARY

Computer engineering graduate with experience in software development, testing, and real-time systems. Skilled in full-stack development, automation, and Agile methodologies. Seeking to leverage strong programming and problem solving skills in software development role.

## TECHNICAL SKILLS

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|---|---|
| Programming Languages: | Java, Java Script, 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 |

## EDUCATION

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

   *Certificate in Technology Entrepreneurship (BEST)*

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

## EXPERIENCE

Software QA Engineer at Quarterhill                                                                              *Jul 24 - present*
- Developing automated testing scripts using Cucumber and Selenium, reducing manual testing time by 40% and accelerating deployment cycles.
- Contribute to projects such as launching over 10 express lanes for ACTC, leading to a 5% revenue increase through enhanced toll collection.
- Verify data using SQL and collaborate on the Tire Anomaly Classification System (TACS), improving safety notifications and compliance.
- Participate in Agile and Scrum methodologies for effective project delivery.

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 and user management.
- 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 and environmental data logging.
- 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