

KHUSHI UPADHYAY

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EXECUTIVE SUMMARY

Aspiring Software Developer with experience in **React, JavaScript, HTML, and CSS**. Skilled in building **responsive web applications** and integrating front-end components with back-end systems. Proficient in **Git, AWS, and UI/UX design**. Passionate about delivering scalable, high-performance solutions and eager to transition into a full-time development role.

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, MongoDB, WordPress, Kubernetes, Postman, Selenium, Cucumber, Eclipse, ActiveMQ, Delphix Masking

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, enhancements, and implementing **Delphix Masking** for data privacy.

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

AI-Integrated Portfolio Website

Oct 2024

- Designed and developed a **fully responsive portfolio website** using **HTML, CSS, and JavaScript**, later migrating to **Next.js and React** for better performance and scalability.
- Implemented a **modern UI/UX** with a dynamic **bento grid layout** to showcase recent projects and experience.
- Integrated an **AI chatbot** using **Microsoft Azure OpenAI (GPT-3.5 API)** to provide interactive responses and assist visitors.
- Developed sections for **resume, work experience, and contact**, enhancing site navigation and user engagement.
- Deployed the application using **cloud infrastructure**, ensuring **fast load times** and **SEO optimization**.

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)