KHUSHI UPADHYAY

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EXECUTIVE SUMMARY

Software Developer with experience building responsive web apps using **React, JavaScript,** and **Java**. Proficient in both frontend and backend development with tools like **AWS, Azure,** and **PostgreSQL.** Strong background in QA automation and software testing, with hands-on experience across the full SDLC. Eager to transition fully into development roles and contribute to high-impact engineering teams.

EDUCATION

Bachelor of Computer Engineering (Specialized Honors)

Certificate in Technology Entrepreneurship (BEST)

York University, Lassonde School of Engineering, Toronto, Canada   *Sep 2019 – Apr 2024*

TECHNICAL SKILLS

Languages:	Java, JavaScript, TypeScript, Python, C++, C#, VB.NET, Golang
Frontend:	HTML, CSS, React, Next.js, Angular,Blazor, Tailwind
Backend:	Node.js, Spring, REST APIs, PostgreSQL, MongoDB
Cloud & Tools:	Git, Docker, Kubernetes, AWS, Azure, Postman, Xcode
Testing:	Selenium, Cucumber, JIRA, Eclipse, Delphix Masking

EXPERIENCE

Software QA Engineer — *Quarterhill Inc.*   *Jul 2024 - present*

- Developed and maintained **Java** and **PL/SQL** test scripts, validating backend functionality and API performance.
- Automated regression tests using **Selenium** and **Cucumber**, reducing manual testing by 40%.
- Debugged and optimized backend systems; collaborated with developers to enhance **Java-based** applications.
- Conducted system testing on **Linux** environments and implemented **Delphix Masking** for secure data handling.
- Participated in Agile ceremonies and contributed to product quality through collaborative code reviews.

Frontend Developer --- *YuRide*   *Sep 2022–Dec 2022*

- 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 increasing responsiveness.
- Collaborated with a cross-functional Agile team using **GitHub**, **Miro**, **Figma**, and **Microsoft Teams**.

Web Developer   --- *Excel Lassonde (York University)*   *Apr 2022–Sep 2022*

- Created a one-page web application using **HTML, JavaScript,** and third-party plugins.
- Integrated **Passport York** authentication and **Calendly** for seamless tutor session scheduling.
- Automated session email notifications, improving communication between students, tutors, and leads.
- Focused on delivering accessible UI and intuitive user flows for students and educators.

PROJECTS

AI-Integrated Portfolio Website — *Next.js, React, HTML/CSS, Azure OpenAI*   *Oct 2024*

- Built a fully responsive personal portfolio website, later migrated to **Next.js** for better performance.
- Integrated an AI chatbot using Microsoft Azure GPT-3.5 API to enhance interactivity.
- Added sections for resume, work experience, and contact to improve navigation and engagement.

RC Model Aircraft Communication System (AIAA DBF)— *Python, Raspberry Pi, Sensors*   *Sep 2023 – Apr 2024*

- Designed an **RC communication system** with real-time servo control and telemetry logging.
- Built a **multithreaded Python architecture** to handle sensor input and control signals concurrently.
- Integrated **ESC**, **servo motors**, and flight sensors with **Raspberry Pi** for precise aircraft operation.

AWARDS / CERTIFICATIONS

- Microsoft Azure Fundamentals (AZ-900)   *Dec 2024*
- AWS Certified Developer – Associate (DVA-C02)   *In Progress*
- York University Faculty Associate Graduate Award   *2023–2024*