

# **Yahya Khan**

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## **SUMMARY**

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Results-driven Software Engineering graduate with nearly 2 years of hands-on experience across embedded systems, full-stack web development, automation, and performance testing. Skilled in C and C++ for low-level and graphics-focused development, including work with the Vulkan API in embedded environments. Proficient in React, Node.js, Python, and Java, with experience building scalable cloud-based applications using modern frameworks such as Next.js. Strong background in CI/CD pipelines, cloud deployment, and agile practices. Adept at designing, optimizing, and deploying applications end-to-end, with a solid foundation in performance tuning, load balancing, and high-efficiency system design.

## **EDUCATION**

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**Carleton University** *Bachelor of Engineering in Software Engineering*

## **WORK EXPERIENCE**

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**Wind River – Embedded Software Developer**

Sept. 2025– Dec. 2025

Created a Vulkan compute-pipeline demo demonstrating alternating surface shaders.

Built a Vulkan-based flight simulation demo, implementing optimized rendering pipelines.

**Canada Revenue Agency– Software Developer**

May. 2022 – Dec. 2022

Developed and debugged Java-based automated test suites using JUnit for government web services.

Conducted load balancing and performance testing using LoadRunner on high-traffic websites.

Collaborated in CI/CD testing workflows and ensured application resilience under concurrent load

**Ericsson – Software Developer**

Jan 2022 – May 2022

Developed automation tools using **Python and Bash** on Linux systems to support network data analysis.

Automated routine data retrieval tasks, improving team efficiency and reducing manual effort by 30+ mins/day.

Contributed to backend infrastructure scalability and scripting for internal DevOps tools.

**Synopsis Inc – Software Developer**

Jun 2019 – Dec 2019

Built a **Python-based automation pipeline** for retrieving and visualizing bug tracking data.

Implemented web scraping and **data visualization** tools for agile reporting in daily standups.

## **TECHNICAL SKILLS**

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**Languages:** Python, Java, C/C++, JavaScript, PHP, SQL, HTML5, CSS, Bash, PowerShell

**Frameworks & Libraries:** React, Next.js, Node.js, Java Spring Boot, Express.js, Tailwind CSS, Pandas, NumPy

**Technologies:** Git, Linux/Unix, Jira, REST APIs, Regex, Web Scraping, Jupyter Notebooks, Automated Testing, Docker, CI/CD Pipelines, SSL Certificates, SSH Tunneling, Firewalls, Encryption, Shell Scripting, Makefiles,

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