# SAQIB ASHRAF

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# Technical Skills

Languages: Python, Typescript, C++, C#, C, Java, SQL

Libraries and Frameworks: Angular.js, .NET, React.js, Next.js, Node.js, Express.js, MongoDB, PostgreSQL

Developer Tools: Git, Docker, AWS, Supabase, Firebase, Vim, Visual Studio Code, Visual Studio Experience

#### Ontario Institute for Cancer Research

May 2025 - Present

Fullstack Software Developer

Toronto, Ontario

- Cut bioinformatician and scientific researcher's onboarding times by 40% by writing a TypeScript DFS-based JSON parser that converts 1,200+ nested if conditions into clear "if X then Y" rules, empowering domain experts to validate workflows.
- Reduced schema-table render times by 70% (from  $\sim 500$  ms to  $\sim 150$  ms) across 15,000+ JSON paths by profiling and memoizing **React** components, enabling real-time data exploration.
- Enabled partner institutes to self-host versioned schema dictionaries via three load modes (server fetch, bundled JSON, custom manifest), reducing integration friction by 70% and supporting offline workflows.
- Accelerated data-model review speed by 50% by transforming raw JSON schemas into interactive ERDs with React Flow embedded in schema cards.
- Cut production hot-fixes by 80% by authoring comprehensive Jest & React Testing Library suites (nested filters, version toggles, modal logic) within a **Jenkins CI/CD** pipeline.

Port 443 Inc.

September 2024 – January 2025

Fullstack Software Developer Intern

Burlington, Ontario

- Developed a private .NET-based REST API with Bogus.Net, introducing the first integration testing pipeline and generating data for 15,000+ customers.
- Engineered a TestSchoolGeneration service in .NET using HashSets and Dictionaries for O(1) lookups; wrote **1,000**+ lines of unit tests to ensure reliability.
- Architected a Bootstrap-powered Submission Bar in Angular.js, integrating into 380+ drawers, dialogs, and wizards for a modern UX.
- Implemented teacher navigation in TypeScript with RxJS fork joins, sets, and maps for 12,000+ users; scripted C# with Microsoft Locale package to provide English support across 150+ global regions.

Appy.Yo March 2024 - June 2024

Software Engineering Intern

Remote

- Implemented RESTful API endpoints using Next.js and PostgreSQL, enhancing data retrieval efficiency by 35%.
- Developed automated test scripts using **Python** and **Selenium** to test **10** web pages within **30** seconds.
- Resolved 20+ bugs by conducting root cause analysis, resulting in a 35% decrease in user-reported issues.
- Collaborated with the CEO through 10+ iterations to design UI/UX in Figma; translated these into reusable React components with Tailwind CSS and Next.js.

### **Projects**

#### Interviewly.ai

Next.js, ChatGPT Whisper API, Tailwind CSS

- Leveraged the ChatGPT Whisper API to transform job descriptions into technical interview questions, eliminating manual searches and reducing time spent by 100%.
- Implemented voice recording with the MediaRecorder API and Blob objects, sending audio to the ChatGPT API and receiving responses within 5 seconds.

#### Leadership & Volunteering

# Variety Village Children's Charity

Ambassador & Programs Lead

• Organized youth soccer programs, summer camps, and facility-wide events (Police Games, Lieutenant Governor's Games) for neurodivergent children.

#### Education

#### University of Waterloo

Bachelor of Applied Science in Computer Engineering

Waterloo, Ontario