

Aarush Khurana

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TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C#, SQL, GraphQL, C/C++, Kotlin, Java, R, Bash, HTML/CSS

Technologies: React, Django, AWS, Express, Node, MongoDB, Docker, Apache Kafka & Nifi, PostgreSQL, NextJS

EXPERIENCE

Qualifacts

Sept. 2024 – Dec. 2024

Full Stack Engineer

Toronto, ON

- Developed an audio recording and transcription feature for patient conversations, using **React+Typescript**, **Django**, **AWS Transcribe**, and **OpenAI** API, resulting in a **40%** reduction on therapist's time spent note-taking.
- Engineered and optimized AI prompts, using **prompt engineering** and **NLP techniques**. Enhancing model performance and response accuracy by **15%**.

DataFix

January 2024 – May 2024

Software Developer

Toronto, ON

- Spearheaded the development of a high-performance **ASP.NET Core** microservice on **Azure**, leveraging **Docker** and **C#** to update database schemas and populate production databases with minimal latency.
- Shipped major features, such as authentication/authorization, user onboarding, and document management in DataFix's **Angular+GraphQL** web application.
- Developed and deployed **70+** bug fixes, ensuring a smooth release for the new, highly performant user interface of the DataFix application.
- Created and maintained a **SQLServer** database system with optimized schema relationships and secure locking, resulting in **15%** faster query speeds and **10%** reduced average table size

Oliver Wyman

January 2023 – May 2023

Software Engineer

Toronto, ON

- Single-handedly planned and developed a **desktop application**, simplifying **XML** file editing, using **Electron JS** and **NextJS** with **TypeScript** resulting in **50%** fewer errors and a **15%** increase in efficiency
- Created **10+ Python** scripts that improved the readability of **XML** file structures, resulting in a reduction of over **20%** in the total number of lines, while ensuring data integrity and structural clarity
- Facilitated integration of the application within a team of varying technical skills by providing thorough demonstrations and **concise documentation**, ensuring successful incorporation into daily workflows

Geotab

May 2022 – August 2022

Software Developer

Oakville, ON

- Developed **50+** patches and hot-fixes for backend and functional issues in Geotab's **C#** application, resulting in **50%** fewer support tickets.
- Verified code changes and services by creating over **90** unit and automated tests, using **Python** and **Selenium**
- Managed large **PostgreSQL** and **GCP** databases by conducting frequent upgrades and clean ups, resulting in **12%** reduced database size along with **25%** faster query times

Purolator Inc.

May 2021 – August 2021

Application Developer

Mississauga, ON

- Determined optimal shipping routes/rates by creating a web application causing a **1.5% revenue increase**, using **React**, **AWS**, and **Google Maps API**
- Received the **Outstanding Rookie Award** for rapidly developing a vaccination-booking tool, using **MERN** stack, enabling the vaccination of over **1000** employees across Canada
- Improved backend of many web applications by creating over **10** new **API endpoints** and **40 Python scripts** leveraging **API gateway**, **Lambda**, **S3**, and **Dynamo DB**

EDUCATION

University of Waterloo

Waterloo, ON

B.S. Honors Computer Science (Co-op)

September 2020 – May 2025

President's Scholarship of Distinction (admission average of 95%+)