

Yassa Taiseer

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EDUCATION

University Of Waterloo

Waterloo, ON

Bachelor of Honours Mathematics, Major in Combinatorics & Optimization. Minor in Computer Science

2027

TECHNICAL SKILLS

Languages: Python, Go, SQL, JavaScript, TypeScript, C#, C++, HTML/CSS, Dart, Java, Swift

Technologies: Node, Stencil.JS, RabbitMQ, Spring Boot, Express, Flutter, Angular, React, Flask, MySQL, MongoDB

Developer Tools: Git/GitHub, Bash, Docker, Bitbucket, Figma, Jenkins, Linux

EXPERIENCE

Software Engineer Intern

May. 2026 – Aug. 2026

MongoDB

Toronto, ON

- Incoming Software Engineer 2026 Cohort. React, JavaScript, TypeScript, Node.JS , AI, LLMs, C++

Software Analyst Intern

Sept. 2024 – May. 2025

Hitachi Rail

North York, ON

- Implemented a custom dialog widget in **Stencil.js** to replace existing web component **increasing speed by 90%**
- Developed element control panel that updates data changes using field subscriptions notifying real time errors
- Built a microservice using **RabbitMQ and Spring Boot** to facilitate data exchange between frontend and backend, reducing load times from **5 seconds to 0.5**
- Rewrote **Plp.js** generation tool to correctly build **i18n** keys and catch errors using **Jenkins** on **CI/CD** pipeline
- Spearheaded addition of security checks for **100s of commands** preventing malicious users from abusing train systems

Software Intern

May. 2024 – Aug. 2024

Lotus Addiction Therapy

Milton, ON

- Built app features using **React Native** that interacted with **Ruby on Rails** application and rendering API data
- Implemented endpoints for scheduling and displaying free therapists **automating 40%** of prior work
- Fixed security issues in web sessions using encryption libraries within **100s** of files writing unciphered code
- Aided in the development of a chat-bot on web and mobile applications able to answer basic user inquiries

PROJECTS

Chess Game Engine | C++, X11

- Developed a Chess game engine following MVC and Observer design pattern with X11 as the graphics display
- Developed different chess openings for enemy computer system with ability to easily add more

BuildAKeeb | Firebase, Typescript, Node.js, Cloud Functions

- Developed a web application that helps recommend keyboards and building parts to tech enthusiasts
- Set up an instance of Firebase Cloud Functions with **Node.js** and **Express.js** to scrape data from keyboard websites in **under 50 ms** resulting in faster population time

MyCanadianDorm | Python, Flask, Angular, MySQL, Docker, Redis, Memcached

- Used **Angular** and **Flask** to create a dorm rating website for schools in Canada with over 100 reviews
- Incorporated rate limiters to the backend avoid spam using **Memcached** and **Redis**

UWPlanr | Python, Flask, MongoDB, React, RegEX

- Fetches, parses and populated courses data from the University of Waterloo API to a **MongoDB** database
- Served through a **Flask** server using a custom designed web scraper using **Selenium** for a CRON job to obtain up-to-date course statistics
- Parsed data using **RegEx** and Python on the backend and are compiled on the frontend with a syntax-specific parser along with a simple and modal-based UI using **React**

Youtube Channel | Python, Golang, C#, Java, C++, SQL

- Create educative videos in areas like: **game, web development, data structures and algorithms**
- Grew to over **700 subscribers with 81 videos and 57,000 views** as of June 2023