

Umar Farooq

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL (Postgres), C++, C, HTML/CSS, R, Racket, Julia
Frameworks: Spring Boot, Node.js, Flask, Django, FastAPI, WordPress, Tailwind, Express.js, Next.js, Supabase
Developer Tools: AWS, Azure, Git, Bash, Zsh, Github, Docker, Google Cloud, Kubernetes, Linux, MongoDB, Postman
Libraries: React, NumPy, Matplotlib, Mongoose, Bcrypt, Bootstrap, Axios, Bcrypt

EDUCATION

University of Waterloo Waterloo, Ontario
Bachelor of Computer Science (BCS): GPA 4.0/4.0 2024 - Present

EXPERIENCE

Electrium Mobility September 2024 - Present
Storepage Developer Waterloo, Ontario

- Used **Next.js** and **Supabase** to implement **Stripe API** into store page to let client securely make payments
- Used **Supabase** and **TypeScript** to develop a **RESTful API** that let users rent out **20+** products
- Developed **Python** scripts for an email **microservice** to automate sending emails to **250+** applicants
- Built a **RESTful API** to process changes to inventory after client purchase inside of a **PostgreSQL** database
- Wrote detailed documentation and **README** files, making code easily readable for **20+** developers in **team**

Sabbskin Canada June 2024 - September 2024
Junior Software Development Intern Toronto, Ontario

- Developed a script using **Javascript** and **Python** to transfer order and purchase data from **10,000+** customers from company Shopify page to Google Sheets
- Optimized **HTML** and **CSS** files for **5+** older store pages to update them to a new Website theme, contributing to a **16%** boost in overall site performance in **LCP** on **Google Pagespeed Insights**

Massachusetts Institute of Technology May 2023 - September 2023
Computer Optimization Research Assistant Remote

- Used **Python**, **Julia**, and **MatPlotLib** to develop and test **simulated annealing** and **gradient descent** algorithms in the use of **optimizing** the aerodynamics of airfoils

PROJECTS

MicroTweets | *Spring Boot* | *Flask* | *Express.js* | *PostgreSQL* | *Docker* | *Git* | *Kubernetes* December 2024 - Present

- Built a Twitter-like, **full stack** web application using **Microservices** architecture and the **MVC** design pattern
- Developed a **gateway API** and **5+** other **RESTful APIs** using **Spring Boot**, **Flask** and **Express.js** to facilitate features such as liking, posting, commenting, following, etc.
- Developed a recommendation algorithm using **Python** for the user timeline based on **10+** parameters
- Containerized** application using **Docker** and orchestrated containers using **Kubernetes** (minikube) to ensure application was **scalable**

TaskFlow | *MongoDB* | *Express.js* | *React* | *Node.js* | *Git* | *Docker* | *Kubernetes* August 2024 - November 2024

- Developed a **full stack**, collaborative team management application using **Node.js** serving **5 RESTful APIs** with **React** as the frontend
- Used **MongoDB** and **Mongoose** to store user tasks and schedules, and **Express.js** for **API** development
- Secured **server** routes using **JWT** and encrypted user information in the database using **Bcrypt**
- Containerized the **Node.js** application using **Docker** and the **Docker CLI** to simplify app deployment

WatIsLife | *React* | *Node.js* | *PostgreSQL* | *Git* | *Java* | *Spring Boot* November 2024 - December 2024

- Developed **full stack** application using **Google's speech-text API** to track how often a user says a phrase daily
- Used **SQL** database and **Flask** to allow for users to be ranked against one another and for user authentication

AnyCrypt | *React* | *Node.js* | *Axios* | *TypeScript* | *Python* | *Git* July 2024 - August 2024

- Developed a **full stack** application that decrypted encrypted user input through select **decryption algorithms**
- Built **speech-recognition algorithm** using **Python** to determine when decryption algorithm found plaintext