Ayan Hafeez

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TECHNICAL SKILLS

Languages: C++, C, Javascript, Python, HTML/CSS, Racket, PHP, Java

Frameworks: React, Node.js, Express, Bootstrap

Developer Tools: Git, Postman, MongoDB, MySQL, Visual Studio, Heroku, LaTeX

Experience - in

Full Stack Development Intern

July 2021 – July 2021

Digitera Interactive

Ottawa, ON

- Frameworked a backend API using Apache, PHP and MySQL for an event management web application
- Implemented testing routines and quality control measures for the backend using Postman and Git
- Integrated API requests and data flow management into a VueJS frontend in a maintainable and scalable manner
- Optimized database queries and server endpoint code to improve overall performance of the web app

Lead Software Developer

Apr. 2020 – July 2021

2381 VEX Robotics - Team C

Ottawa, ON

- Led the design and development of a codebase for autonomous robot control in the VEX EDR competition
- Developed robot odometry and motion profiling using PID controllers and mathematic principles in C/C++
- Won the international programming skills challenge due to proficient codebase design and implementation

Co-President Apr. 2020 – July 2021

SET Foundation NPO

Ottawa, ON

- Acted as co-president for the SET Foundation NPO (Ottawa Sector) oriented towards students in STEM
- Spearheaded the organization of a multitude of events including hackathons, conferences and panels
- Won the international programming skills challenge due to proficient codebase design and implementation

Projects - 🞧

Qi Language Interpreter $\mid C/C++, Github/Git$

May 2021 - June 2021

- Developed a fully featured interpreter for a custom programming language using C and C++
- Designed a 5 staged interpreter for a statically typed language in adherence with OOP principles
- Implemented support for I/O, control flow, data structures and built-in object methods
- Used a combination of manual testing and automation via GitHub Actions to ensure best practices during CI

CCScraper | Python, BS4, SQLite

Apr. 2021

- Designed a web scraper to monitor hardware prices and track them via pulling postings to a local database
- Integrated web scraping via BeautifulSoup4 and parsing in Python for canadacomputers.com
- Linked scraping script to a local SQLite database and implemented automatic CRUD operations on scrape

Quikslide AI Presentations | Python, Flask, SQLAlchemy, HTML/CSS/JS, Various APIs

Jan. 2021

- Developed an autonomous presentation generator for the HackTheNorth2020++ hackathon
- Implemented payload summarization via NLTK and automatic slide generation with the Google Slides API
- Used Flask to serve endpoints for a traditional frontend application hosted on Heroku

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor's of Computer Science - BCS - 1A/B

Sept. 2021 - July 2026

Relevant Courses: Designing Functional Programs (Advanced) - CS 145