

Tayyaab Tanveer

3A Computer Engineering Student • University of Waterloo

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TECHNICAL STRENGTHS

Languages: Python • Java • Javascript • C • C++ • SQL

Frameworks & Libraries: Salesforce • Node.js • MongoDB • Flask • React • Redux • SQLAlchemy

Tools: Docker • AWS • Kubernetes • Heroku • Git • Postman

WORK EXPERIENCE

Ada.cx • Software Engineering Intern, Full Stack

Toronto, ON

Python • Typescript • AWS • React • Redux • MongoDB

Jan 2021 - Apr 2021

- Refactored and modularized React components to reduce code duplication and enhance readability, improving developer velocity
- Owned and developed a **milestone feature** to support file attachments in the chat window, **employed by over 80%** of **enterprise** clients
- Designed APIs for generating **SHA-256, SHA-516 and UUID (v4)** strings, allowing for more secure and consistent interactions
- Surfaced with various stakeholders to investigate and resolve bugs, effectively **reducing backlog by 50%**

MAX-Aspire • Software Engineering Intern, Back End

Toronto, ON

Python • JavaScript • Stripe • PostgreSQL • AWS • React

May 2020 - Dec 2020

- Created a social media platform using a **serverless web application** with **AWS Lambda**, supporting interactions between 1000+ users
- Developed **REST APIs** using **AWS RDS** and **Cognito**, allowing users to securely interact with job openings and yielding an average **response time of 300ms**
- Introduced an email-reminder system using **Stripe API** and **AWS SES**, actively retrieving customers set to expire and triggering an email campaign to retain their subscriptions
- Automated integration and unit testing suite using **Coverage.py** to document and ensure **100% coverage** on all APIs

Newtopia Inc. • Software Engineering Intern, Full Stack

Toronto, ON

Apex • MySQL • JS • WSL

Sep 2019 - Dec 2019

- Developed an employee **scheduling web app**, increasing inbound participant capacity by **2x**
- **Improved error catching** by abstracting error messages to a public class, **enhancing code coverage by 10%**
- Re-architected core **data workflows** to implement **schema changes** in anticipation of a **2x** increase in scale

PROJECTS

OakHacks 2020/2021 Hackathon • Organizer

Jun 2020 - Present

- Organizer for the inaugural OakHacks Hackathon, a beginner-friendly virtual hackathon catered to highschool and university students with over **100 participants**

Midnight Sun Solar Car • Firmware Developer

Jan 2019 - May 2019

- Developed embedded code to **enhance precision** in driver dashboard and logs, allowing for more meaningful **data analysis** post-race

EDUCATION

University of Waterloo

Sep 2018 - Present

- Candidate for BAsC in Honours Computer Engineering 2023
- **Relevant Coursework:** Data Structures & Algorithms • Embedded Microprocessors Systems • System Concurrency Programming
Digital Computer Systems • Real-Time Operating Systems