

AMAN SHAH

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EDUCATION

University of Waterloo

Candidate for BAsC Honours Computer Engineering

Sep 2019 - Apr 2024

Waterloo, ON

- Relevant Courses: Data Structures & Algorithms, Database Systems, Systems Programming & Concurrency, Compilers

WORK EXPERIENCE

Sonero

Software Engineer Intern

Jan 2022 - Apr 2022

Toronto, ON

- Spearheaded calendar integration workflow using **Python** and **OAuth** to securely sync user's calendar meetings for automatic analysis using deep learning, resulting in a **20% increase in revenue** and **30% increase in users**
- Orchestrated "instant join meeting" feature with **AWS** and **Python** allowing bot to immediately join and analyze meetings, with a 90%+ user engagement rate and increased time spent on platform by 40%
- Increased team efficiency by **saving 8+ hours a week** through automating 150+ key product metrics and creating 10+ dynamic dashboards in **React** with custom SQL queries

4GL Solutions

Software Engineer Intern

May 2021 - Aug 2021

Toronto, ON

- Spearheaded development of JSON & excel converters in **Python** and Django, **reducing latency by 40% and reducing memory usage by 50%** by optimizing bulk database calls and introducing **multiprocessing**
- Implemented 10 interface screens in **React** with **asynchronous CRUD** and validation used by **10000+ clients** monthly
- Produced **15+ custom APIs** for resequencing, validation and updating values in Django and **PostgreSQL**
- Deployed **50+ models**, viewsets, serializers and API endpoints through **Docker** to expand client portal capabilities

Polar

Software Engineer Intern

Sep 2020 - Dec 2020

Toronto, ON

- Built database to excel converters in **Python** and **PostgreSQL** to automatically generate **10+ reports**
- Introduced Python, **Selenium** and **Django** testing guideline for models, database transactions, and API functionality
- Demoed features to managers and coworkers to explain design decisions and iterate on feedback with hard deadlines

CAA

Software Engineer Intern

Jan 2020 - Apr 2020

Toronto, ON

- Scraped Glassdoor reviews using self-directed webscraper in **Python** and **Pandas** to analyze **500+ employee reviews**
- Introduced **NLP** with self-built AI Topic-Modelling Model in **Python** to display employee trends to decrease turnover
- Authored **CI/CD pipeline** for weekly directory sorting, storage and email script in Python for reports and key items

PROJECTS AND ACTIVITIES

VP Tech - UWaterloo Entrepreneurship Society | entsoc.ca

Sep 2021 - Now

- Led **team of 5** to engineer **MERN** stack web app to serve REST APIs reaching **200+ monthly users**
- Developed **Python** and **Flask CRUD** enabling student startups to find co-founders with **30+ projects** listed total
- Created APIs, data sanitizers, validators and landing pages in **Javascript** to enable smooth registration process

Real Time Operating System

May 2022 - Dec 2022

- Created Real Time Operating System in **C/C++** with Process Scheduling, Job Queues and Custom Interrupt Handlers

Species Prediction Website | Github

May 2021 - Aug 2021

- Added tokenization, login validation and user authentication for APIs with **Django REST API** and **PostgreSQL**
- Processed user input and returned species type with **89% accuracy** with **Python** and created user interface in **React**

Automated Event Scheduler | Github

Sep 2020 - Dec 2020

- Launched full-stack application using **Django Rest Framework**, **Python** and **React** with CRUD to automatically find optimal location of event and sync with GCal based on location, business hours, and specified query

TECHNICAL SKILLS

Languages: Python, C++, Java, Javascript, SQL, HTML, CSS

Tools/Frameworks: Django, React, Docker, REST, Google Cloud, AWS, Git, PostgreSQL, SQLite, MySQL, TCP/IP, OpenCV