

AMAN SHAH

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github.com/AmanShah-11

amanshah-11.github.io/personal-website2

TECHNICAL SKILLS

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

Data/ML: Tensorflow, Keras, Numpy, Pandas, Scikit, Matplotlib

Tools/Frameworks: React, Docker, Django, REST, Flask, Google Cloud, AWS, Git, PostgreSQL, SQLite, Oracle, OpenCV

WORK EXPERIENCE

4GL Solutions

May 2021 – Aug 2021

Full-Stack Developer Intern

Toronto, ON

- Spearheaded development of JSON & excel converters in **Python**, creating **Django** models **40%** faster 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 **1000+ clients** monthly
- Deployed **50+ models**, viewsets, serializers and API endpoints through **Docker** to expand client portal capabilities
- Produced **15+ custom APIs** for resequencing, validation, database rollbacks and updating values in Django and **Oracle**
- Created customized modals, tables, navbars and dropdowns in React and **Bootstrap** to improve user engagement

Polar

Sep 2020 – Dec 2020

Software Developer Intern

Toronto, ON

- Built database to excel converters in **Python** and **PostgreSQL** to generate **8+ reports** improving customer satisfaction
- 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

Jan 2020 – Apr 2020

Software Developer Intern

Toronto, ON

- Scraped Glassdoor reviews using self-directed webscraper in **Python** and **Pandas** to track **300+ employee reviews**
- Trained and deployed Deep Learning Topic Modelling Model in **Scipy** displaying trends to improve employee retention
- Authored an automated weekly directory sorting, storage and email script in Python for reports and key items

PROJECT EXPERIENCE

Species Prediction Model | Github

May 2021 – Aug 2021

- Processed user input and returned species type with **89% accuracy** with **Python** and **Tensorflow** model
- Added tokenization and user authentication for APIs, and login validation with **Django REST API** and **PostgreSQL**
- Designed user interface that supports API calls, password changes and login/logout capabilities in **React** and **Redux**

Automated Event Scheduler | Github

Sep 2020 – Dec 2020

- Launched full-stack application using **Django Rest Framework** and **Python** to automatically find optimal location of event with desired users based on location, business hours, and specified query
- Routed events and requests with **Google Cloud** using **oAuth** tokens to automatically sync events with Google Calendar
- Enabled event registration, user login and event display forms with **CRUD** functionality in Django and **React**

Video Recognition System | Github

Sep 2020 – Nov 2020

- Formed a facial recognition system with **AWS Rekognition**, **Python** and **OpenCV** to verify user's existence in database
- Generated Front End System and tokenization using **React** and **Django Rest Framework** for user authentication

Bank Loan Approval Website | Github

Jan 2020 – Apr 2020

- Built machine learning model with **Python** and **Tensorflow** to dictate loan approval/rejection with **92% accuracy**
- Introduced full-stack application with **REST APIs**, **SQLite** database and **Django** forms for user registration
- Customized forms with navbar, images and 13 input fields using **Bootstrap** to create appealing UI

EDUCATION

University of Waterloo

Sep 2019 – Apr 2024

Candidate for Bachelor of Science in Honours Computer Engineering

Waterloo, ON

- Relevant Courses: Data Structures & Algorithms, Systems Programming & Concurrency, Object Oriented Programming