

# AMAN SHAH

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github.com/AmanShah-11

amanshah-11.github.io/personal-website2

## TECHNICAL SKILLS

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

**Tools/Frameworks:** React, Django, Django Rest Framework, Flask, PostgreSQL, SQLite, Oracle, Pandas, Selenium

**Other:** Docker, Git, Github, AWS, Google Cloud, Visual Studio Code, Redux, Jira, Tensorflow

## WORK EXPERIENCE

### 4GL Solutions

May 2021 – Aug 2021

Full-Stack Developer Intern

Toronto, ON

- Spearheaded **multiprocessing development** and optimized **Oracle** database calls to JSON & excel converters creating **Django** models 40% faster and reducing memory usage by 50%
- Implemented 10 interface screens in **React** with **asynchronous CRUD** and validation used by 1000+ clients monthly
- Created reusable modals, tables, navbars and dropdowns used throughout codebase in **React** and **Bootstrap**
- Transitioned 50+ models, viewsets, serializers and endpoints from **Oracle db** to **Django** through **Docker**
- Produced 15+ custom APIs for resequencing, validation, database rollbacks and updating values in **Django** and **Oracle**
- Led pair programming sessions and engaged in **25+ code reviews** to ensure optimized code and proper code coverage

### Polar

Sep 2020 – Dec 2020

Software Developer Intern

Toronto, ON

- Built database to excel converters to export data and generate 8+ reports from **PostgreSQL** in **Python** and **Django**
- Introduced **Python**, **Selenium** and **Django** testing guideline for **Django** objects, database transactions, and frontend
- Demoed features to managers and coworkers to explain design decisions and iterate on feedback with hard deadlines
- Raised specific issues in **Jira**, and trusted to be involved in several code reviews to provide meaningful feedback

### CAA

Jan 2020 – Apr 2020

Software Developer Intern

Toronto, ON

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

## PROJECT EXPERIENCE

### Species Prediction Model | Python, React, Redux, Django, PostgreSQL, REST API

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 | Python, Google Cloud, React, Django, REST API

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 | Python, AWS, OpenCV, React, Django

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 | Python, Tensorflow, Bootstrap, SQLite, Django, REST API

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 **Django REST API**, **SQLite** database and **Django** forms for user registration
- Customized forms with navbar, images and 13 input fields using **Bootstrap** and **HTML** 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 and Algorithms, Systems Programming and Concurrency, Digital Computers