

Aman Shah

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EDUCATION

University of Waterloo

Sep 2021 – Apr 2026

Candidate for Bachelor of Applied Science, Honours Mechatronics Engineering Co-op.

Waterloo, ON

Relevant Courses: Data Structures and Algorithms, Digital Computation(C/C++).

SKILLS

Languages: Python, Java, C/C++, JavaScript, SQL, Flutter, HTML/CSS, TypeScript, Swift, Shell Script

Frameworks/Libraries: ReactJS, TensorFlow, NodeJS, Django, VueJS, Laravel, Numpy, Pandas, NLTK, Regex

Tools: MongoDB, Postman, GIT, PostgreSQL, MySQL, SQLite, Swagger, Oracle Cloud, IBM Cloud

Certifications: Oracle Cloud Infrastructure Foundations 2021 Certified Associate

EXPERIENCE

GrantMatch

May 2022 - Aug 2022

Junior Software Developer

Waterloo, ON

- Programmed a platform to aid data librarians upload **4500+** grants for clients to apply and receive funding.
- Developed **60+** web pages with **login**, **data-grid-view paging**, and **data manipulation** functionality with **HTML**, **SQL**, and **VueJS**, improving platform performance by **77%** and user accessibility by **62%**.
- Migrated **laravel** codebase to **Django** solution; Implemented VueJS forms and performed unit testing in **Jest**.
- Integrated **100+** automated test scripts, which resulted in a decrease of manual testing processes by **80%**.

Teenager Startups/Teenivo Inc.

Nov 2019 - Present

Co-Founder

Waterloo, ON

- A growing platform of **500+** teenagers to share and connect their business ideas with one another.
- Developed a responsive front-end for Teenager Startups' website with **30+** immersive features using **ReactJS**.
- Built **REST API** framework using **Django** and **ORM queries** to exchange data between **PostgreSQL** database and interface.
- Designed public API services using **Swagger** and the website/app is hosted on **IBM Cloud** for data security.
- Programmed Teenivo's app in **Flutter** and used Teenager Startups' database and API to save **50%** of time.

PROJECTS

Blogging Application 🌐 | *HTML, CSS, JavaScript, Node.js, Bootstrap, MongoDB, React*

- Created a responsive **CRUD** app using **REST API** to allow users to manipulate their posts and profile.
- Developed the back-end with **NodeJS** and used **HTTP** methods to send information from forms to the server.
- Utilized **Context API** to exchange user information and blog data stored in an atlas **MongoDB** cluster.
- Implemented **Axios** to send asynchronous HTTP requests to REST endpoints to perform CRUD operations.
- Designed a front-end interface using **React**, **HTML/CSS** and **JavaScript**; Utilized **Postman** for API testing.

Budget Guard 🌐 | *Node.js, React, React Bootstrap*

- Created a CRUD app to keep track of expenses by calculating the difference between entered income and expenses.
- Designed a responsive UI in **ReactJS** and **React Bootstrap**, using React Hooks to achieve **33%** more efficiency.
- Implemented search functionality and used **local storage** to view previously added budgets and expenses.

Phonebook 🌐 | *HTML, CSS, Django*

- Worked on front-end using **Tailwind CSS** library to build a unique interface with creative animation.
- Used **Django** to develop a responsive web application that performs **CRUD** operations on user contacts.
- Sent user information and contact details using **ORM queries** into **SQLite Database** (Django inbuilt database).

Speak Up! 🌐 | *Python*

- Built an interactive program for the visually impaired using **Python 3**, **pyaudio/pyttsx3** for speech recognition.
- Developed an easy-to-use front-end interface to build a normal application for users through **Tkinter** library.

Instagram Analyzer 🌐 | *JSON, Numpy, Pandas, NLTK, Python, Regex*

- Cleansed the Instagram chat by removing duplicates, erroneous data and fixing data with **93%+** accuracy.
- Analyzed Instagram chats to calculate chat response time, chat initiator, favorite words, emojis, timeseries data plotting, sarcasm and tone detector using **python**, **pandas**, **NumPy**, **regex** and **JSON**.

Tic-Tac-Toe 🌐 | *Swift, Python*

- **V1:** Programmed a responsive and convenient **GUI** for all IOS devices using **Swift** and **Swift UI** in **Xcode**.
- **V2:** Developed the app in **Python** using **Minimax Algorithm**, in which the AI has a **100%** win/draw rate.

INTERESTS

Entrepreneurship | IOT | Cloud | Robotics | Skydiving | Dancing | Gymnastics | Swimming | Acting | Cricket