

Aman Shah

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SKILLS

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

Frameworks/Libraries: ReactJS, Django, VueJS, TensorFlow, NodeJS, Numpy, Pandas, Siemens TIA

Tools: MongoDB, Postman, Git/Github, PostgreSQL, MySQL, SQLite, Swagger, Oracle Cloud, IBM Cloud

Certifications: Oracle Cloud Infrastructure Foundations 2021 Certified Associate

EXPERIENCE

Eclipse Automation - Acquired by Accenture

Jan 2023 - Apr 2023

Controls Software Designer Co-op

Cambridge, ON

- Collaborated with the largest electric vehicle company on developing an automated battery assembly system, leveraging **Siemens PLCs** and **HMI** programming to **optimize production throughput by 20%**.
- Programmed Fanuc robot for motion path creation, program customization, and performance optimization.
- Designed, programmed, and implemented **30+ features** in HMI and PLC, including safety, actuation, and **data display functionality**, resulting in enhanced performance and functionality of automotive systems.

GrantMatch

May 2022 - Aug 2022

Junior Software Developer Co-op

Waterloo, ON

- Programmed a platform to aid data librarians to 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**.

Teenager Startups/Teenivo Inc.

Nov 2019 - Present

Co-Founder/Developer

Waterloo, ON

- Developed a platform of **500+ teenagers** to share and connect their business ideas with one another.
- Created 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 with **PostgreSQL**.
- 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, JavaScript*

- 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.

Amazon Review Sentiment Analysis | *Python, NumPy, Pandas, Naive Bias, Word2Vec*

- Performed sentiment analysis of review dataset into Binary-label as well as 5-label classes by using NLP and ML models like **Naive Bias**, **Word2Vec**, and feedforward **neural network** to achieve around **93%** efficiency.
- Cleaned, analyzed data, and compared hidden layer's activation functions such as **ReLU**, **sigmoid**, and **tanh**.
- Used matplotlib, Keras, Pandas, and SkLearn for preprocessing and manipulating data to achieve higher accuracy.

Gesture Detector | *Python, TFOD, CUDA, cuDNN*

- Programmed a real-time object detection system for **5 gestures** with **83% precision** and **84% recall**.
- Preprocessed **100+** images to feed into a training model and performance tuned to increase precision and recall.
- Trained deep learning powered object detection models using **TFOD**, **Python** and **CUDA/cuDNN**.

EDUCATION

University of Waterloo

Bachelor of Applied Science, Honours Mechatronics Engineering Co-op

In Progress

Waterloo, ON

INTERESTS

Entrepreneurship | Skydiving | Dancing | Gymnastics | Swimming | Acting | Cricket