
Skills

Languages: Python, JavaScript, Java, C#, VBA, HTML/CSS, MATLAB, R

Technologies and Tools: React, Node.js, Flask, AWS, Numpy, MySQL, Bootstrap, Semantic UI, Git, Bash, Salesforce, Visual Studio, VSCode, Excel VBA, Arduino, Google Colab

Relevant Courses: Algorithm & Data Structures (Java), Intro to Programming(Java), MSCI Concepts(VBA)

Experience

Software Developer Intern

May 2021 – Aug 2021

Penser.io - Cambridge, MA

- Designed and developed **ETL pipeline** to extract data from **Salesforce** in near real-time using Rest API
- Injected data into **AWS S3** and **database** using **AWS Lambda** functions in **Python** and **Node.js**
- Spearheaded development of log analysis and data transformation using **MySQL** and **AWS Athena**
- Improved architecture of pipelines, reducing run-times on average of **16%**

Research Engineer Intern

May 2021 – Aug 2021

University of Waterloo - Waterloo, ON

- Analyzed and modified code associated with new publications in AI world advancing research for CFD
- Utilized various technologies and tools like **MatLab** and **PyTorch** in **Linux** virtual environment
- Completed Machine Learning course by Andrew Ng (Stanford) learning various ML concepts

Projects

T-Clips | JavaScript, React, Node.js, Python, Flask, Semantic UI, VSCode, Git

- Developed a Twitch video downloading website using **React** front-end with **Flask** back-end
- Used Twitch **API** to provide easy access to download videos of any streamer and allowing parameters
- Deployed and updated website using **Heroku** and **Github**

Fractal Generating Software | C#, .NET Framework, Visual Studio

- Developed a software that renders Julia fractal models with custom colour palette of given complex equations on **Visual Studio** using **C#**
- Designed intuitive and functional **GUI** allows user to interact with software and embedded features
- Learnt and applied **OOP** concepts and optimized programming logic reducing render times by **18.5%**

StayOnTop: Decision Support Tool | VBA, Excel, Visual Studio

- **Led, designed and developed** with team of 5 to create application to assist senior UWaterloo students to manage and organize aspects of their Final Year Design Project
- Developed **front-end and back-end** using **VBA**, gaining insight in **OOP** and **GUI** design
- Implemented various interactive features within tool saving clients **10-15%** time in organization

Education

University of Waterloo

Waterloo, ON

B. Applied Science. Management Engineering

Sept. 2020 – Present (2025)

Waterloo President's Scholarship | GPA: 3.87 | Dean's Honours List | NSERC Scholarship