

# SIAVASH POURDEILAMI

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## SUMMARY OF SKILLS

- **Languages:** Python; C++; HTML; CSS; SAS; Scheme;
- **Technologies:** Flask, ArcGIS, PyGame, Numpy, SFML, MySQL, Bash, Pandas, Git, Blockchain, Microsoft Office, Adobe Photoshop, Shopify, Twilio API
- **Interests:** Data Analysis, Machine Learning, Web Development, Application Program Interface, Software development

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## WORK EXPERIENCE

Software Engineer, Intern	Terrene (Terrene.co)	May 2019 – September 2019
<ul style="list-style-type: none"><li>• Developed several Python programs to grab data from a webpage, format and then process data to train a machine learning model using an AutoML engine.</li><li>• Created predictive models for different applications such as retail sales, predicting daily, weekly and monthly sales. One of those models used historical sales data of restaurants to predict how much of each item they need to order in the future.</li><li>• Developed multiple pipelines to continuously fetch new data and re-train existing models.</li><li>• Researched and integrated algorithms to determine correlation between thousands of unique variables in a dataset.</li></ul>		
Student Volunteer	Terrene (Terrene.co)	July 2017 – August 2017
<ul style="list-style-type: none"><li>• Unit testing and QA document control.</li><li>• Dealt with debugging open-source programs.</li><li>• Data manipulation and analysis. Developed a script to filter csv files by removing outliers, null values and other irrelevant data.</li></ul>		

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## EDUCATION

Waterloo, ON	University of Waterloo	September 2018 – Present
<ul style="list-style-type: none"><li>• Honours Geomatics – Undergraduate<ul style="list-style-type: none"><li>• Anticipated graduation date of May 2023</li></ul></li></ul>		

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## TECHNICAL EXPERIENCE

### Projects

- **Interactive Website:** Coded a website using Flask. An encrypted user registration and login management using MySQL and different encryption methods to safely store all user data. Integrated multiple APIs, including features such as two-factor authentication (Twilio), a built-in image compressor and file management system for uploads made by individual users.
- **Python & C++ Game:** A 2D shooting game developed using PyGame consisting of randomly spawned creatures on the right side of the screen, alongside the user-controlled character on the left side, with the aim to beat one's high score by eliminating the monsters. Developed a similar implementation of the game using SFML in C++.
- **Shopify Store:** Created and managed an E-commerce store. Worked in a team to handle products, billing, marketing, policies, management, customer support, social media and shipping/receiving.
- **Summarizer:** Developed a Python script to summarize any text into a given number of lines (input by the user). The algorithm would rank words based on the number of times they appeared throughout the text and remove any pleonastic text from the input.

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## ADDITIONAL EXPERIENCE AND AWARDS

- CPA: Programming Essentials i C++ certification from C++ Institute (2017)
- Cisco Networking Academy: Internet of Things certification (2017)