

Stephen W. Askew

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SKILLS SUMMARY

Languages

Python; Bash; SQL; C; React; Latex; MatLab; Java; JavaScript; R;

Passionate About

Automating Tasks; Data Visualization;

EXPERIENCE

University of Waterloo

Visiting Researcher

Waterloo, ON

Fall 2018

- Use of computer simulations to improve the detection and diagnosis of medical conditions.
- Perform analysis of spectral reflectance data using Python, MatLab, Bash and Latex.

Intellitix

Data Science Intern

Chatham, ON

Fall 2017

- Created and managed ETL/data integration pipeline for Microsoft SQL to MySQL for a ClickHouse database.
- Developed and maintained data visualization dashboard in R.
- Automated bulk load of partner data into AWS MySQL database using Python and Bash.
- Implemented a bash script to calculate/summarize data from multiple reports for management.

Hackforge

Development Intern

Windsor, ON

Summer 2016

- Researched, designed, and built visualization tools for large datasets using React.
- Developed robust and maintainable code using ReactJS, Redux, and RESTful APIs.

University of Waterloo

Instructional Apprentice and Teaching Assistant

Waterloo, ON

Fall 2016

- CS230 Intro to Computers, CS488 Computer Graphics, CS136 Elementary Algorithm Design.
- Managing marking of assignments by TA's, Marking assignments and tests, Providing feedback to students.

PROJECTS

Information Retrieval

- Parsed PubMed for 700,000 key terms using Python. Determined relevant articles using continuous active learning.

Photo RGB App

- Application allowing a user to take a photo and then upload to AWS using React-Native, Python, AWS and Firebase. After upload Python runs on the backend to retrieve the RGB values in photo.

Automated Restaurant Reservations

- Program to automatically check availability and book dining reservations using Selenium, Python, Chrome and Crontab.

Deal Finder

- Program to track products of the users choice. When a promotion occurs for the product the user is notified via text message. Created using Selenium, Python, Twilio and Crontab.

EDUCATION

University of Waterloo

Masters of Mathematics: Computer Science

Waterloo, ON

August 2018

- Member of the Natural Phenomena Simulation Group.
- Research focus on the *in silico* simulation of cyanotic skin appearance.

University of Windsor

Bachelors of Computer Science

Windsor, ON

August 2016

- Graduated with Honors.