Stephen W. Askew

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SKILLS SUMMARY

Skills

Unit Testing; Big Data; OOP; GitHub; Rest APIs; Networking; React; Selenium; Google Cloud; AWS; Docker; NoSQL;

Languages

Python; Bash; MySQL; C; Latex; MatLab; Java; JavaScript; HTML; CSS; R;

Passionate About

Data Engineering; Automating Tasks; Data Visualization;

EXPERIENCE

University of Waterloo   Waterloo, ON
Visiting Researcher   *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   Chatham, ON
Data Science Intern   *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   Windsor, ON
Development Intern   *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   Waterloo, ON
Instructional Apprentice and Teaching Assistant   *Fall 2016*

- CS230 Intro to Computers, CS488 Computer Graphics, CS136 Elementary Algorithm Design.
- Coordinating 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   Waterloo, ON
Masters of Mathematics: Computer Science   *August 2018*

- Member of the Natural Phenomena Simulation Group.

University of Windsor   Windsor, ON
Bachelors of Computer Science   *August 2016*

- Graduated with Honors.