Stephen W. Askew

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SKILLS SUMMARY

Skills

Python; Bash; SQL; C; Latex; MatLab; Java; JavaScript; R; Go; React; MongoDB; Selenium; Crontab; Chrome Extensions; Docker; Kubernetes; Google Cloud; AWS; Firebase; ClickHouse; NoSQL;

Passionate About

Data Engineering; Automating Tasks; Data Visualization;

EXPERIENCE

University of Waterloo — Waterloo, ON
Visiting Researcher — *Fall 2018*

- Creation and management of data integration pipeline to transfer spectral reflectance files to MySQL database.
- Use 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.
- 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 — Waterloo, ON
Masters of Mathematics: Computer Science — *August 2018*

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

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

- Graduated with Honors.