Stephen W. Askew

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SKILLS SUMMARY

- **Languages**
  Python; Bash; SQL; React; JavaScript; C;

- **Passionate About**
  Automating Repetitive Tasks; Data; Visualization

EXPERIENCE

- **University of Waterloo** — Waterloo, ON
  Instructional Apprentice — *Present*
  - **CS230 Introduction to Computers and Computer Systems**: Automating Marking, Marking Tests and Assignments, Scheduling Meetings and Organizing TAs.

- **Intellitix** — Chatham, ON
  Data Science Intern — *Fall 2017*
  - **Pipeline**: Created and managed ETL/data integration pipeline for Microsoft SQL to MySQL for ClickHouse.
  - **Visualization**: Developed and maintained data visualization dashboard in R.
  - **Automation**: Automated bulk load of partner data into AWS MySQL database using Python and Bash.
  - **Summarizing**: Implemented bash script to calculate/summarize data from multiple reports for management.

- **Uniersity of Waterloo** — Waterloo, ON
  Teaching Assistant — *Fall 2016*
  - **Courses**: CS488 Computer Graphics, CS136 Elementary Algorithm Design and Data Abstraction, CS137 Programming Principles

- **HackForge** — Windsor, ON
  Development Intern — *Summer 2016*
  - **Visualization**: Researched, designed, and built visualization tools for large datasets using React.
  - **Programming**: Developed robust and maintainable code using ReactJS, Redux, and RESTful APIs.

PROJECTS

- **Information Retrieval:**: Parsed PubMed for 700,000 key terms using Python. Determined relevant articles using continuous active learning.
- **Automatic Restaurant Reservations**: Program to automatically check availability and book dining reservations using Selenium, Python, Headless Chrome and Crontab.
- **Price Tracker**: 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.
- **Photo RGB App**: Application allowing a user to take a photo and then upload to their accout using React-Native, Python, AWS and Firebase.
- **Touch Screen Pi Camera**: Touch screen camera created using Raspberry Pi and Raspian OS.

EDUCATION

- **University of Waterloo** — Waterloo, ON
  Masters of Mathematics: Computer Science — *Graduating August 2018*
- **Simulation**: Simulated the appearance of human skin to create samples that allow for the in silico screening of skin disorders.
- **Lab**: Member of the Natural Phenomenon Simulation Group.
- **University of Windsor** — Windsor, ON
  Bachelors of Computer Science — *Graduated August 2016*