William Setzer

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SUMMARY

Customer-focused professional offering experience in computer programming, data collection, data processing, and analysis, with knowledge in Java and Python.

SKILLS AND LANGUAGES

- Strong knowledge of Python
- Strong knowledge of Linux
- Good knowledge of PostgreSQL
- Working knowledge of HTML and JavaScript
- Working knowledge of MongoDB

- Working knowledge of Java
- Working knowledge of Ruby
- Working knowledge of x86 Assembly
- Working knowledge of Scala

EDUCATION

Bachelor of Computer Science with Honors, *Magna Cum Laude* University of Alabama at Birmingham GPA: 3.81

May 2018 Birmingham, Alabama

WORK EXPERIENCE

RESEARCH ASSISTANT

May 2018 - Present

UAB DEPARTMENT OF COMPUTER SCIENCE

- Collected data using Python, Ruby, and PostgreSQL from Reddit and alternative social media sites, e.g. 4chan, 8chan, Minds.
- Analyzed collected data with Python and Hadoop to find statistical patterns, producing plots to visualize the data using various plots, e.g. CDFs, CCDFs, joint distributions, and basic scatter and line plots.
- Used change point analysis to correlate changes in the patterns of data collected to real-world events.

TEACHING ASSISTANT

August 2017 - May 2018

UAB DEPARTMENT OF COMPUTER SCIENCE

- Instructed lab sections for both Introduction to Computer Science and Computer Architecture, teaching and assisting a wide variety of students as they learned Python in the introductory course and x86 Assembly in the computer architecture course.
- Graded homework assignments.

Programmer

May 2017 - May 2018

UAB Computer Forensics Research Lab

- Managed the programming team to
- Created efficient web scrapers to scrape forums in **Python** using packages including *Requests*, *lxml*, *aiohttp*, *AsyncIO*, *multiprocessing*, and *Selenium*.
- Transitioned web scraping in the lab from pure Selenium to Requests, AsyncIO, and aiohttp to create faster web scrapers.
- Created a web forum database for scrapers in PostgreSQL to replace multiple non-standardized ways
 of storing forum data.
- Set up and maintained a **MongoDB** instance for collecting a variety of non-standard data collected from the web.

BARISTA

May 2016 – November 2016 Birmingham, Alabama

Starbucks

Cashier Chick-fil-A January 2016 – May 2016 Birmingham, Alabama

PROSTHETIC TECHNICIAN

May 2015 – June 2015, May 2013 – June 2013

Alabama Artificial Limb and Orthotics Service

Montgomery, Alabama

Website Product Entry

BETH'S HEIRLOOM SEWING

June 2014 – August 2014 Wetumpka, Alabama

Awards and Leadership

• UAB President's List

Spring 2016, Fall 2016, Fall 2017, Spring 2018

• UAB DEAN'S LIST

FALL 2015, Spring 2017

• UAB Presidential Scholarship

Fall 2014 - Spring 2018

• Vermeer Corporation Scholarship

2014, 2016