William Setzer

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Summary

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

Skills and Languages

- Strong knowledge of Python and Linux
- Good knowledge of PostgreSQL
- Working knowledge of JavaScript, Java, Ruby, and Scala
- Beginner proficiency in German

Education

Bachelor of Computer Science with Honors, *Magna Cum Laude* — May 2018
University of Alabama at Birmingham — Birmingham, Alabama
GPA: 3.81

Work Experience

Cyber Security Engineer — June 2019 – Present
Regions Bank — Birmingham, Alabama
- Redesigned content and processes to fit modern standards and development practices.
- Automated SOC processes with the Splunk Phantom platform.
- Created playbooks, automation scripts, and product integrations within Phantom.
- Integrated the SOAR platform with a range of products to provide automation actions for workflows.
- Migrated content from Demisto to Splunk's Phantom platform.

Research/Teaching Assistant — August 2017 – June 2019
UAB Department of Computer Science — Birmingham, Alabama
- 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.
- 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.

Programming Team Lead & Programmer — April 2017 – August 2018
UAB Computer Forensics Research Lab — Birmingham, Alabama
- Supervised the programming team, ensuring the quality of code and the delivery of tools for use by the lab's cyber-crime analysts.
- Established effective use of version control and documentation practices.
- Conducted programmer interviews and onboarded new team members.
- 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
Starbucks — Birmingham, Alabama

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

Prosthetic Technician   May 2013 – June 2013, December 2015 – January 2016
Alabama Artificial Limb and Orthotics Service   Montgomery, Alabama

Website Product Entry   June 2014 – August 2014
Beth's Heirloom Sewing   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