Leandro Ribeiro

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Education

Binghamton University, State University of New York — Expected **May 2019**
Bachelor of Science in Computer Science, Watson School of Engineering
Bachelor of Arts in Mathematics, Harpur College of Arts and Sciences
GPA: 3.65/4.00 | Dean's List: Spring 2016 – Present

Technical Skills

Languages: Python, C++, C, Ruby, Java, HTML/CSS, LaTeX

Tools: Vim, Git, Linux Command Line, Arch Linux, Ubuntu, SMTP, make, gdb, JFLAP, Chef, Logisim, Eclipse, IDLE
Additional: x86 Assembly, SQLite, BeautifulSoup, digital circuit design, fluent in Portuguese

Professional Experience

General Electric, Infrastructure Engineer Intern — Greenville, SC, **June 2018-August 2018**
- -Established automated checking of server specification variance from standards using Chef scripts
- -Constructed Flask app to automate onboarding process for engineers
- -Quickened checking from 5 minutes per server to 1 minute total, and onboarding from 2-3 weeks to under 1 week

Binghamton University, Senior Residential Computer Consultant — Binghamton, NY, **August 2016-Present**
- -Manage the technology services of the College-in-the-Woods living community in Binghamton University
- -Troubleshoot technologically advanced issues

Projects

Super Simple File System — Binghamton, NY, **May 2018**
- -Implemented tool that simulates a file system by reading/writing files using C++
- -Applied multi-threading for concurrent disk operations and indirect/double-indirect block pointers for large files.
- -Learned intricacies of file systems and role of mutexes in increasing efficiency

NFA Simulator — Binghamton, NY, **February 2018**
- -Developed program that reads strings and determines their validity with a Non-deterministic Finite Automata
- -Combined custom classes and data structures to traverse NFAs via depth-first search in C++
- -Increased knowledge of graph traversal as well as the mechanics of Finite Automata and Regular Expressions

Custom Floating-Point Implementation — Binghamton, NY, **March 2018**
- -Created a floating-point datatype in C with an arbitrary number of bits for the exponent and mantissa of the number
- -Utilized bit manipulation to create desired quantity of bits that the number should take up.
- -Grew an understanding of bit manipulation, IEEE floating point numbers, and number type conversions.

Flamenguista — New York, NY, **July 2017**
- -Developed Python scripts to scrape for the schedule, standings, and scores of the Brazilian soccer team Flamengo
- -Formulated regular expression patterns to extract the team's statistics and printed the stat tables on the terminal
- -Gained experience in web scraping using BeautifulSoup

Leadership Experience

HackBU, Organizer — Binghamton, NY, **September 2015-Present**
- -Aid in creating workshops/presentations that give new programmers the resources and support to learn coding
- -Help organize the annual Hackathon at Binghamton University, with hundreds of students attending every year

Binghamton University ACM Chapter, Member — Binghamton, NY, **February 2016-Present**
- -Attend weekly meetings to practice and analyze competitive programming challenges and their solutions
- -Program in Python to take input and calculate a viable solution for technical problems

Upsilon Pi Epsilon Iota Chapter, Tutor — Binghamton, NY, **September 2017-Present**
- -Help students better understand the material from the introductory Computer Science and Mathematics courses