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EMPLOYMENT

Software Engineer, Intern **Micro Focus (NetIQ)** **January 2016 - Current**

Sentinel Information & Event Manager; Java, JavaScript

- Created a benchmarking tool to benchmark and time the RhinoJS engine and its extensions.
- Improved efficiency of company built RhinoJS extensions by upwards of 50% through caching mechanisms and code re-implementation.
- Designed data parsers for use with Sentinel to process incoming client data.
- Re-implemented multiple Ant build processes as a unified Maven build for efficient dependency retrieval.
- Created Electron NodeJS application for a custom development environment to develop Sentinel plugins.
- Improved database polling efficiency on client data collectors through better polling logic and constants.

System Administrator **University of Houston** **Fall 2014**

- Administered a network of ~100 computer and 5 servers used for Computer Science research at Computational Biomedicine Lab, consisting mostly of Linux machines with a few Windows.
- Performed maintenance, upgrades, and restores for servers. Rebuilt a RAID on Dell Poweredge machines, and performed temporary information cleanup on Linux machines.
- Debugged older PHP files to render content properly on the CBL website.

Software Engineer, Intern **UR International** **Summers 2013 - 2015**

FindMyTowedCar; Java, AndroidSDK, XML

- Began development and design of an Android application to work with the findmytowedcar.com web ui.
- Built custom (XML) parsers for various towing service's incoming data using Java.
- Decreased retrieval time of towing service data on Android device by 75% using caching.
- Created an automatic invoice generator that outputs pdf files sent to clients.

EDUCATION

Houston, TX **University of Houston** **Fall 2014 – May 2017**

- B.S. in Computer Science with Minor in Mathematics, May 2017. GPA: 3.6. In-major GPA: 3.7
- Coursework: Algorithms and Data Structures; Operating Systems; Artificial Intelligence; Software Engineering; Programming Paradigms; Software Design; Databases; Automata; Computer Architecture

TECHNICAL EXPERIENCE

Projects

- **Twitter Sentimental Analysis**. Predicting sentimental value of twitter data and then plotting the data visually on a map using geolocation twitter data. Used Natural Language Processing and Sentimental Analysis. Java
- **Stocks Visualizer**. Obtaining stock information across various periods, generating visual data, and calculating stock momentum, current value, and profitability. Python
- **League of Legends match data and game prediction**. Web Application showcasing live game match data and predicts winning team 80% of the time based on previous outcomes and player data. PHP, JavaScript, JSON
- **Process Scheduler**. Emulating a kernel that manages cores, I/O, and data paths for processes. C, C++
- **Genetic Algorithm Implementation**. Program to find the "best" chromosome and how to generate it effectively using genetic algorithms, fitness functions, and mutations. Java
- **Dropbox CLI**. Command line interface for use with Dropbox tools, utilities, and functions. Python

ADDITIONAL EXPERIENCE AND AWARDS

- Academic Excellence – University of Houston; Dean's List 2014-Current
- IBM Master the Mainframe Part 1 & 2 Winner; HP Code Wars (Top 10) x3; HackerRank Top 25%; UIL Regional Computer Science Competitions (Top 5) x5
- CougarCS and National Society of Collegiate Scholars Member

Languages and Technologies

- Java; C/C++; JavaScript; PHP; Python;