MATTHEW DAMBRA

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EXPERIENCE

West Highland Support Services — Danbury, CT
Market Data Linux Engineer — Oct 2018 – Oct 2019

- Developed and maintained system infrastructure and software on TREP systems for global financial leaders.
- Manager and point-man for a system wide Linux infrastructure migration to new hardware.
- Provided tier support to clients experiencing issues on their TREP, BPIPE, Solace, and other Linux environments.

Phoenix Medcom — Cortlandt Manor, NY
Junior System Administrator — May 2018 – Oct 2018

- Developed report generation software to compile database entries into human readable format.
- Managed administration of accounts, hardware, and software across the entire company and client sites.
- Developed and maintained IT infrastructure including servers and workstations.
- Using C/C++, SQL, and Visual Basic, developed a series of in house applications and scripts, increase service reliability while also increasing time efficiency.

Sensato Cybersecurity Solutions — Stormville, NY
Software Developer/Cybersecurity Consultant — Aug 2017 – Oct 2018

- Developed various cybersecurity software platforms including an intrusion detection and prevention system.
- Designed and developed a remote assessment application using a combination of Perl and Python. Reduced time and expenses required to assess clients.
- Developer of mobile hardware botnet consisting of a SQL database, html, and Python used as an attack/penetration testing surface using Raspberry Pi device.

TECHNICAL SKILLS & EXPERTISE

- C/C++
- Perl
- Python
- Test driven development
- Java
- Object-oriented programing
- Verilog
- SQL
- Artificial neural networks
- GIT
- SharePoint
- PowerShell
- Computer architecture
- Agile development
- Algorithm design and analysis

INDEPENDENT PROJECTS

Intrusion Detection & Prevention System

- Using Perl, SQL, and Python, designed and developed an IPS for a wireless ad-hoc network. Developed artificial neural networks to analyze network data to determine if a network breach has occurred.
- System consists of multiple parts: local data collection, global data collection, local analysis engine, global analysis engine, local response engine, a global response engine, and a database.
- Created a network packet sniffing application to store traffic occurring on the network in a SQL database.

Image Analysis Application

- Built software to take pictures of parking lots and determine remaining empty spaces, for real time reporting.
- Application created on a Raspberry Pi, using Python's OpenCV library.
- Developed and trained an artificial neural network with unsupervised learning to identify parking lot spaces, and which ones are empty or filled.

EDUCATION

- B.S. Computer Security, May 2017 – State University of NY at Plattsburgh, Cum Laude

ADDITIONAL EXPERIENCE AND ACHEIVEMENTS

- Treasurer, Nu Theta Gamma Fraternity
- Manager, National Youth Leadership Training, BSA
- Alumni Director, Alumni Association
- Member, Association of Computing Machinery
- Inter-Fraternal Council Delegate of Excellence
- Eagle Scout, Boy Scouts of America
- SUNY Plattsburgh Dean's List
- Member, Gamma Sigma Alpha, Greek life honor society