

# MATTHEW DAMBRA

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## EXPERIENCE

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### West Highland Support Services

Market Data Linux Engineer

Danbury, CT

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

Junior System Administrator

Cortlandt Manor, NY

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.

### Self Employed

Software Developer/Cybersecurity Consultant

Stormville, NY

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

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|--------------|-------------------------------|---------------------------------|
| ➤ C/C++      | ➤ Object-oriented programming | ➤ Node.js                       |
| ➤ Perl       | ➤ HTML/CSS                    | ➤ PowerShell                    |
| ➤ Python     | ➤ SQL                         | ➤ Computer architecture         |
| ➤ Javascript | ➤ Artificial neural networks  | ➤ Agile development             |
| ➤ Java       | ➤ GIT                         | ➤ Algorithm design and analysis |

## INDEPENDENT PROJECTS

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### 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

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- B.S. Computer Security, May 2017 – State University of NY at Plattsburgh, Cum Laude
- UConn Flex Coding Bootcamp – Graduation expected May 2020

## ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

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| ➤ Manager, National Youth Leadership Training | ➤ Eagle Scout, Boy Scouts of America      |
| ➤ Alumni Director, Alumni Association         | ➤ SUNY Plattsburgh Dean's List            |
| ➤ Member, Association of Computing Machinery  | ➤ Member, Gamma Sigma Alpha Honor Society |