

# MATTHEW DAMBRA

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## SOFTWARE ENGINEERING & DEVELOPMENT

### PROFILE

Analytical, solutions-oriented professional with a proven background in leading and supporting the development of new software, applications, and systems. Maintain a continual commitment to quality while leading efforts to resolve key issues and improve system reliability and performance.

### HIGHLIGHTS

- **Held Team Lead role during the development** of an intrusion detection & prevention system using Perl, SQL, and Python; developed artificial neural networks to analyze network data and identify breaches.
- **Oversaw team efforts to build software** for an image analysis application (created with Raspberry Pi & artificial neural networks) to capture pictures to identify empty spaces in parking lots.
- **Coordinated the upgrade of an entire TREP** (Thomson Reuters Enterprise Platform) server network, a delivery system for market data.

### EDUCATION

- UNIVERSITY OF CONNECTICUT SCHOOL OF ENGINEERING AT HARTFORD  
**Coding Boot Camp** – *in progress (Expected Completion: 05/2020)*  
*Concentrations:* Full Stack Development; JavaScript; MySQL; HTML/CSS
- STATE UNIVERSITY OF NEW YORK (SUNY) COLLEGE AT PLATTSBURGH  
**Bachelor of Science in Computer Security (05/2017)**  
*Concentrations:* Software Engineering; Intrusion Detection Systems; Cyber Threat Analysis & Modeling; Artificial Intelligence; Data Structures

### EXPERTISE

- \*Software Development
- \*Problem Solving
- \*Programming
- \*Team Leadership
- \*Coding
- \*Project Coordination
- \*Troubleshooting
- \*Cybersecurity
- \*Systems Engineering
- \*Computer Networking
- \*Systems Infrastructure
- \*Computer Security
- \*Technical Support
- \*Client Relations
- \*Intrusion Detection
- \*Threat Analysis
- \*Artificial Intelligence
- \*Operating Systems
- \*Software Installation
- \*Web Development
- \*Systems Maintenance
- \*Issue Resolution
- \*Penetration Testing

### EXPERIENCE

WEST HIGHLAND SUPPORT SERVICES (*Danbury, CT*)

#### Market Data Linux Engineer

10/2018 to 10/2019

- Supported initiatives of an international market data support services firm by developing and maintaining system infrastructure and software on TREP systems for global financial leaders.
- Oversaw a systems-wide Linux infrastructure migration to new hardware.
- Provided tier support to clients experiencing issues involving BPIPE, Solace, and other Linux environments.

PHOENIX MEDCOM (*Cortlandt Manor, NY*)

#### System Administrator

05/2018 to 10/2018

- Held System Administrator role for a company providing clinical documentation and support services to hospitals and physician practices.
- Developed report generation software to compile database entries into human readable formats.
- Managed administration of accounts, hardware, and software across the entire company and client sites.
- Developed and maintained IT infrastructure, including servers and workstations.
- Established in-house applications and scripts via C/C++, SQL, and Visual Basic.
- Coordinated software installations and ensured proper maintenance of networks.
- Initiated troubleshooting efforts to resolve issues associated with various applications.

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## EXPERIENCE, CONT.

SENSATO CYBERSECURITY SOLUTIONS (*Stormville, NY*)

### Software Developer / Cybersecurity Consultant

08/2017 to 04/2018

- Developed and deployed multiple cybersecurity software platforms, including an intrusion detection and prevention system using advanced Artificial Neural Networks in Python and MySQL database as well as several other components written in C/C++, Python, Perl, SQL, and PHP.
- Coordinated vulnerability assessments and security assessments.
- Developed a mobile hardware botnet comprised of a SQL database, HTML, and Python used as an attack/penetration testing surface (using a Raspberry Pi device).
- Held key role during the creation of a Cyber Tactical Training Center, a cyber incident training center.
- Monitored and analyzed client networks for threats.

SUNY PLATTSBURGH (*Plattsburgh, NY*)

### Student Network Operations Specialist

12/2016 to 01/2017

- Provided assistance during the deployment of a new intrusion detection system.
- Surveyed and monitored the campus network.
- Programmed switchboards and other infrastructure hardware.
- Installed wireless access points and patch panels.
- Managed/maintained a database of network hardware and infrastructure.

SUNY PLATTSBURGH (*Plattsburgh, NY*)

### Student Information Technology Specialist

08/2015 to 05/2017

- Performed computer maintenance and repairs.
- Initiated troubleshooting processes to diagnose network issues and anomalies.
- Provided on-site and phone support to faculty, staff, and students to resolve software and hardware issues.
- Removed viruses and malware.

MANHATTAN DISTRICT ATTORNEY'S OFFICE (*Manhattan, NY*)

### Information Technology Specialist

06/2015 to 08/2016

- Facilitated the rollover and development process of a new intranet on Microsoft SharePoint.
- Coordinated a database query implementation with Microsoft SQL Server.
- Provided key contributions to the rollout of Windows 10.
- Held account accountability for troubleshooting hardware and software issues.
- Addressed customer concerns via the IT Helpdesk.

## TOOLS / TECHNOLOGIES

Software:	Visual Studio, Eclipse, MongoDB, MySQL
Operating Systems:	Windows, Debian Linux, Centos Linux
Programming Languages:	C/C++, Java, JavaScript, HTML/CSS, MySQL, Mongo, VBA, Python, Perl, PHP, Linux Shell Scripting, Bash, Regex, C#, .Net
Additional:	Verilog, Artificial Neural Networks, GIT, SharePoint, PowerShell