# Paul Nakonieczny

631-413-6672 | paul@paulnak.com | paulnak.com | github.com/Sgt-Forge | linkedin.com/in/paul-nak/ | Rome, NY

## Experience

**Software Engineer** – Assured Information Security | Rome, NY                    **March 2019 – Present**
*Python, C++, Django, Flask, Postgres, MongoDB, Nginx, RIOT.JS, Bootstrap*
- Designed a video streaming and sharing web application within two days to address customer needs in response to COVID-19. Developed both the back-end and front-end services used by staff members.
- Wrote unit tests using test-driven-development to verify correct code execution and validate user input. Increased the percentage of tested code from 0% to 90%.
- Collaborated with the customer to identify design goals for a website rebuild and achieved a site performance increase of over 300% as measured by Google's "Pagespeed Insights".
- Led and mentored a group of six interns using Scrum for tasking and management. Discussed and tackled various leadership and technological scenarios.
- Managed a virtual network with over 500 virtual machines, 50 routers, and 25 autonomous systems.

**Intern** – Assured Information Security | Rome, NY                    **October 2018 – December 2018**
*Python, Postgres, Bash*
- Increased UI interaction speeds in a custom Python terminal interface by reducing algorithmic complexity and using asynchronous operations.
- Generated documentation by using the Sphinx documentation tool and Google's Python Style Guide.

**Intern** – Advanced Course in Engineering | Rome, NY                    **May 2018 – August 2018**
*C++, Python, PyQt, Apache, MySQL*
- Developed a desktop application to display live network information.
- Engineered software to infiltrate target computers. Developed a command-and-control server to issue commands to target computers.
- Designed and reinforced a network infrastructure with services such as HTTP/HTTPS, Telnet, IRC, SSH, FTP, DNS, Gitlab, VPN, and a VyOS router on a virtual network with server virtualization software.
- Promoted to deputy commander of a 15 person team.

## Projects

**Credits Cryptocurrency**                    github.com/Sgt-Forge/Credits
*JavaScript, Node.js, Travis-CI, Coveralls*
- Designed and implemented a minimal blockchain and cryptocurrency. Managed Continuous Integration/Continuous Deployment with Travis-CI, Coveralls, and test driven development.

**Coursera Machine Learning**                    github.com/Sgt-Forge/Coursera-ML-Python
*Octave, Python, Matplotlib*
- Earning a certificate in machine learning from Coursera. Building neural networks, logistic regression models, and support vector machines in Octave. Manually implementing classwork in Python as a personal project.

## Technical Skills & Certifications

**Languages:** Python, C++, C, Java, JavaScript, Bash, HTML5, CSS3
**Software Skills:** Git, Docker, Travis CI, Coveralls, Node.js, Flask, Django, Linux, Octave, PostgreSQL, MongoDB
**Security Clearance:** Top Secret (March 2020-Present)

## Education

**Binghamton University**, Binghamton, NY                    **September 2015 – December 2018**
B.S. Computer Science                    **3.37 GPA**