

# Paul Nakonieczny

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## 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 in two days to address customer needs in response to COVID-19 for a private web application. Developed both the back-end and front-end.
- 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 leadership and technological problems.
- 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.
- Documented the codebase using the Sphinx documentation tool and Google's Python Style Guide.

**Intern** – Air Force Research Laboratory | 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](https://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](https://github.com/Sgt-Forge/Coursera-ML-Python)

*Octave, Python, Numpy, 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++, JavaScript, C, Java, Bash, HTML5, CSS3

**Software Skills:** Git, Flask, Django, Node.js, Linux, PostgreSQL, Docker, Travis CI, Coveralls, Octave, MongoDB

**Security Clearance:** Top Secret (March 2020-Present)

## Education

**Binghamton University**, Binghamton, NY **September 2015 – December 2018**

B.S. Computer Science

**3.37 GPA**