

# Nathan Withers

Aspiring Security Analyst



3 July 1998



United States, PA



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## About me

I am an aspiring red team analyst and information security specialist.

## Skills

- Java
- C
- Linux
- Windows
- SQL
- HTML
- Python
- CSS

## Coursework

1. Discrete Structures
2. Data Structures
3. Computer Organization & Assembly Language
4. Intro to Systems Software
5. Algorithm Implementation
6. Formal Methods in Computer Science
7. Data Communication and Computer Networks
8. Applied Cryptography and Network Security

## Interests

My main interests are working with information security and big data, specifically in relation to pen-testing as well as Paterva's Maltego for data collection and analysis

## Education

- University of Pittsburgh B.Sc. Expected graduation 2020
- 5 year bachelors/masters program in Computer Science
  - GPA: 3.56

## Experience

- Webmaster & techcrew — Firebird Theatre 2015-2018
- Maintained the Website
  - Fixed sound/light boards
  - Designed the playbills for each show (7 per summer)
- Assistant computer technician — Methacton High School 2014
- Upgraded and installed new systems
  - Maintained the network by managing IP addresses
  - Visited satellite schools to fix broken printers

## Projects

- Discord Client CLI — Python
- Integration with Discord's Restful API
  - For use on Linux operating systems without an X server
- Pandora API Wrapper — Java
- Restful API wrapper for accessing Pandora's radio stations programmatically.
- Math Bot for GroupMe — Python & JavaScript
- Math bot for students in my Calculus 1 & 2 GroupMe
  - Integrated the GroupMe Web API and Norton, a Java Script Math API
- Statistical Analysis of Laundry usage data — Python & Bash & SQL
- Queries Laundry data per residence hall from Pitt's website
  - Data stored in postgresql
  - Parsed and analyzed in bash script
- Oxford Dictionary API Wrapper — Java
- An API wrapper for interacting with Oxford Dictionary's REST API