

## PROFILE

Software Engineer proficient in backend development, particularly in Python. Have also held roles in DevOps, Infrastructure, and Machine Learning. Skilled at debugging obscure issues, and writing strong documentation and unit tests to prevent them from happening again.

## EDUCATION

**M.S. in Computer Science, May 2025**  
Temple University, Philadelphia, PA | 3.83 GPA

**B.S. in Mechanical Engineering, June 2016**  
Drexel University, Philadelphia, PA | 3.86 GPA

## WORK

### Arcadia | Remote

*Late-stage startup utilizing utility data for renewable energy solutions*

Senior Software Engineer

April 2024 - Present

Software Engineer III

April 2023 - April 2024

Software Engineer II

April 2022 - April 2023

- Developed utility connectors in Python that authenticated users and captured residential utility data from consumer utility portals and websites
- Lead an effort to move utility connectors from running on AWS Lambda to Kubernetes
- Debugged Java applications for handling proration and inference of utility data
- Developed tools for processes such as address geocoding and memory use optimization
- Updated Rails models, controllers, and processors for managing data in a Postgres database

### The Stratagem Group | King of Prussia, PA

*Small-scale contractor for various programs spanning across the DoD and Intelligence Community*

Software Engineer Senior

August 2019 - April 2022

- Defined and implemented a program-wide DevSecOps pipeline that could build, test, scan, and package C++, Java, and Python applications through GitLab CI/CD
- Designed and implemented a backend REST API query service using Spring Boot
- Developed automated UI tests using Cucumber.js and Selenium to simulate user actions
- Created an AWS Lambda Python application to export / import TestRail project data
- Lead the process for recruiting and hiring students from the Drexel University Co-op program

### Lockheed Martin, Space Systems Company | King of Prussia, PA

*Large-scale contractor for various programs spanning across the DoD and Intelligence Community*

Software Engineer

April 2018 - August 2019

Associate Software Engineer

September 2016 - April 2018

- Automated software installation and server configuration tasks
- Supported weekly deployments to a factory level test environment
- Developed Perl scripts to synchronize software packages on an air-gapped system
- Created and improved End-to-end tests using Selenium and C#

## RESEARCH

### Temple University

*Capstone Project*

January - May 2025

- Implemented state of the art algorithms for the Traveling Salesman Problem, including Ant Colony Optimization and Q-Learning, and compared efficacy on several problem types

### Center for Data Analytics and Biomedical Informatics | Temple University

*Independent Study Project*

August 2022 - May 2023

- Developed a PyTorch RNN pipeline to classify retinal images for indicators of hypertension
- Improved the model via hyperparameter tuning, oversampling, and image augmentation