

PROFILE	Software engineer with extensive development, DevSecOps, and machine learning experience. Knowledge of multiple languages and frameworks, with a strong ability to think Pythonically. Skilled in automating DevSecOps processes, such as packaging, deployment, and End-to-end testing, for various enterprise programs. Passionate about code coverage and extensive documentation when developing new code.		
EDUCATION	B.S. in Mechanical Engineering, June 2016 Drexel University, Philadelphia, PA GPA: 3.86		
COURSES	Software: Advanced Programming Techniques, Data Structures and Algorithms Engineering: Controls, Finite Element Methods, Fluids, Materials, Thermodynamics		
CERTIFICATIONS	<ul style="list-style-type: none">• Machine Learning — Coursera Course, Stanford Online — May 2020• Reinforcement Learning — Coursera Specialization, University of Alberta — Feb 2020• Industrial Internet of Things — Lockheed Martin Pipeline Course — Oct 2018		
SKILLS	Programming Languages <ul style="list-style-type: none">• Python, Perl, Bash, C++, C, JavaScript, MATLAB Development Operations Tools <ul style="list-style-type: none">• Jenkins, TFS, Docker, AWS, Rundeck, Sonarqube, Nexus Repository Manager, TestRail Software Development Tools <ul style="list-style-type: none">• Git, Vim, Sphinx, Selenium, BDD Tools (Cucumber, Behave, SpecFlow) Software Packaging Tools <ul style="list-style-type: none">• RPM, setuptools (Python), npm, MSBuild, NuGet, Chocolatey Engineering Tools <ul style="list-style-type: none">• ANSYS, Creo, MakerBot 3D printing, Minitab, LabVIEW, L^AT_EX		
EXPERIENCE	The Stratagem Group King of Prussia, PA <i>Software Engineer - Machine Learning Role</i> March 2019 - Present <ul style="list-style-type: none">• Determine useful attributes among data for accurate classification• Create algorithms for detecting different behaviors in incoming data streams• Upscale docker-compose development network to enhance functionality and stability• Develop methods for hyperparameter optimization utilizing Optuna <i>Software Engineer - Automated Testing Role</i> August 2019 - Present <ul style="list-style-type: none">• Create a Python program to export TestRail project data and import it into a remote TestRail instance utilizing REST API calls• Develop automated testing prototypes utilizing JavaScript Cucumber test framework and Selenium web drivers• Present and demonstrate custom software tools at conferences to various product stakeholders Lockheed Martin, Space Systems Company King of Prussia, PA <i>Software Engineer</i> April 2018 - August 2019 <ul style="list-style-type: none">• Automated software installation, configuration, and testing as part of an agile development team		

- Reduced source code by implementing a process to create environment-specific packages from a template
- Communicated with test users to help identify and resolve product defects
- Supported weekly product deployments to a factory level test environment

Associate Software Engineer

September 2016 - April 2018

- Maintained software archives in Nexus via RESTful API modules written in Perl
- Developed and improved End-to-end tests using Selenium and C#
- Configured SSL/TLS certs for web services and applications

Optical Diagnostics Lab, Drexel University | Philadelphia, PA

Hess Undergraduate Research Scholar

June 2015 - March 2016

- Wrote a Python script to monitor vibration on lab equipment using an accelerometer connected to a Raspberry Pi
- Developed data acquisition and control programs for oscilloscopes and temperature controlled lasers using LabVIEW

University City Science Center | Philadelphia, PA

Technical Investment Analyst

September 2014 - March 2015

- Collaborated with local institutions to transition biomedical research into marketable products
- Prepared and submitted grant applications through the National Institute of Health (NIH) and Small Business Innovation Research (SBIR) programs

Essential Medical | Malvern, PA

Product Development Co-op

September 2013 - March 2014

- Built and tested 500+ vascular closure devices for sealing capability and functionality
- Wrote documentation, including Assembly Instructions and a Verification Test Plan
- Conducted product experiments in an in vitro model and assisted in an in vivo study

PERSONAL PROJECTS

Spotify Playlist Generator | <https://andygnias.com/SpotifyAPI>

- Generates a Spotify playlist for a user from a text-based list of tracks

Secret Santa Selection Manager | https://andygnias.com/Secret_Santa

- Makes Secret Santa selections for a group, considering exceptions, and emails the assignments to participants via AWS Simple Email Service (SES)

LEADERSHIP & ACTIVITIES

Phi Kappa Psi Fraternity | Philadelphia, PA

- Chapter President - October 2014 – May 2015
- Scholarship Evaluator - March 2017 - Present
- Regional Officer Training Facilitator - February 2020

Engineering Spring in Bochum, Germany | April - June 2014 | Bochum, DE

- Took engineering classes at Ruhr-Universität Bochum
- Assisted PhD candidates in a lab performing research on Phase Change Slurries (PCS)