

PROFILE	Software engineer with extensive development and DevSecOps 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	<p>Graduate Certificate in Computer Science Temple University, Philadelphia, PA Expected Graduation: May 2023</p> <p>B.S. in Mechanical Engineering, June 2016 Drexel University, Philadelphia, PA GPA: 3.86</p>
COURSE- WORK	<p>Graduate Courses: Programming Techniques (Data Structures and Algorithms)</p> <p>Undergraduate Courses: Computer Programming I and II (OOP in C++), Advanced Programming Techniques, Data Structures and Algorithms, Control Systems, Finite Element Methods, Computer Aided Design, Fluid Dynamics, Materials, Thermodynamics</p>
CERTIFI- CATIONS	<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
SOFTWARE	<ul style="list-style-type: none">• Languages: Python, C++, Java, JavaScript (Node.js), Perl, Bash, MATLAB• Tools: AWS, Docker, GitLab, Jenkins, Selenium• Engineering Tools: ANSYS, Creo, MakerBot 3D printing, Minitab, LabVIEW, L^AT_EX
EXPERIENCE	<p>The Stratagem Group King of Prussia, PA</p> <p><i>Tech Lead - Cloud Development Program</i> September 2021 - Present</p> <ul style="list-style-type: none">• Design and implement backend REST API services using Spring Boot in Java• Implement unit tests using JUnit and Mockito• Analyze existing projects for reusability on new program tasks <p><i>Software Engineer Senior - Application Framework & Infrastructure Program</i> September 2020 - October 2021</p> <ul style="list-style-type: none">• Defined and implemented program-wide DevSecOps pipeline that can build, test, scan, and package C++, Java, and Python applications through GitLab• Developed libraries in C++, Java, and Python to simplify API calls• Deployed and tested applications in an OpenShift pipeline• Served as scrum master for an agile development team <p><i>Software Engineer Senior - Automated Testing Program</i> August 2019 - December 2020</p> <ul style="list-style-type: none">• Created an AWS Lambda application to transfer TestRail project data into a remote TestRail instance utilizing REST API calls• Developed automated UI tests using Cucumber.js and Selenium to simulate user actions for over 40 different test scenarios• Created automated test pipeline templates in Jenkins with "plug-and-play" usability

- Presented and demonstrated custom software tools at conferences to stakeholders

Software Engineer Senior - Machine Learning Program March 2020 - October 2020

- Determined useful attributes among datasets for accurate classification
- Created and improved applications interacting with data through Apache Kafka
- Hardened docker-compose development network to enhance functionality and stability
- Developed methods for hyperparameter optimization utilizing Optuna

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

Software Engineer April 2018 - August 2019

- 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

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

LAB / PROJECT EXPERIENCE

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
- Designed circuit board to read data from accelerometer and temperature monitor

Drexel University and Children's Hospital of Philadelphia | Philadelphia, PA

Senior Design Team Member

September 2015 - June 2016

- Optimized a laryngoscope blade to improve the success rate of pediatric intubation
- Developed and read input from sensors to detect pressure points on device
- Analyzed MRI scans of pediatric airway anatomy to determine optimal device curvature