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| 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 | B.S. in Mechanical Engineering, June 2016 Drexel University, Philadelphia, PA GPA: 3.86 |
| COURSE- WORK | Software Courses: Computer Programming (C++), Advanced Programming Techniques, Data Structures and Algorithms Engineering Courses: Control Systems, Finite Element Methods, Computer Aided Design, Fluid Dynamics, Materials, Thermodynamics |
| 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 | Languages <ul style="list-style-type: none">• Python, JavaScript (Node.js), C/C++, Perl, Bash, MATLAB Operating Systems <ul style="list-style-type: none">• Linux (RHEL, Ubuntu), Windows CI / CD <ul style="list-style-type: none">• Jenkins, GitLab, Microsoft TFS (Azure DevOps Server) Application Development <ul style="list-style-type: none">• AWS, Docker Testing <ul style="list-style-type: none">• Selenium, Cucumber, TestRail Packaging <ul style="list-style-type: none">• Sonatype Nexus, RPM, Python setuptools, npm 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 - Application Framework & Infrastructure Program</i> September 2020 - Present <ul style="list-style-type: none">• Define and implement program-wide DevSecOps pipeline that can build, test, scan, and deploy Java and C++ applications through GitLab• Serve as scrum master for an agile development team of 8+ engineers <i>Software Engineer - Automated Testing Program</i> September 2019 - December 2020 <ul style="list-style-type: none">• Created an AWS Lambda application to transfer TestRail project data into 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 |

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

Secant Medical | Perkasie, PA

Quality Engineering Co-op

September 2012 - March 2013

- Validated internal test methods used to analyze various biomedical textiles
- Qualified equipment for proper installation and operational functionality (IQ/OQ)
- Wrote novel test methods that complied with USP (U.S. Pharmacopeia) standards

**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
- Developed data acquisition and control programs for oscilloscopes and temperature controlled lasers using LabVIEW

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

Drexel University Implant Research Center | Philadelphia, PA

Lab Volunteer

April 2014 - June 2014

- Assisted in cleaning and preparing biomedical implants of the knee and hip for testing
- Performed photo-documentation on biomedical implants

**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 | Bochum, DE

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