Andrew Gnias

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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, Reinforcement Learning (Coursera Specialization, 2019), Industrial Internet of Things Pipeline (Lockheed Martin Pipeline Course, 2018)
Engineering Courses: Control Systems, Finite Element Methods, Computer Aided Design, Fluid Dynamics, Materials, Thermodynamics

SKILLS

Programming Languages
- Python, Perl, Bash, C++, C, JavaScript, MATLAB

Operating Systems
- Linux (RHEL, Ubuntu), Windows

Software Development Tools
- Git, Vim, Selenium, Cucumber

Software Packaging Tools
- RPM, MSBuild, NuGet, Chocolatey

Development Operations Tools
- Nexus Repository Manager, Docker, AWS, Jenkins, TestRail, Microsoft TFS

Engineering Tools
- ANSYS, Creo, MakerBot 3D printing, Minitab, LabVIEW, LaTeX

EXPERIENCE

The Stratagem Group | King of Prussia, PA
Software Engineer Senior   August 2019 - Present
- Create and maintain Python program to export TestRail project data into an XML file and import into a remote TestRail instance utilizing REST API calls
- Develop automated testing prototypes utilizing JavaScript Cucumber test framework and Selenium web drivers
- Present custom software tools at conferences and product demos to various product stakeholders

Lockheed Martin, Space Systems Company | King of Prussia, PA
Software Engineer   April 2018 - August 2019
- Automated processes to install, configure, and test software as part of an agile development team
- Implemented a process to create environment-specific packages from a template, reducing source code
- Communicated with test users to help identify and resolve product defects
- Wrote and improved code for a Java project to simulate test scenario events

Associate Software Engineer   September 2016 - April 2018
- Maintained software archives in Nexus via RESTful API modules written in Perl
- Supported weekly product deployments to a factory test level environment
- 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
- Monitored vibration on lab equipment with an accelerometer utilizing I2C communication protocol
- Designed circuit board to read data from accelerometer and temperature monitor
- Wrote Python script to process and upload data to Google Drive using Google APIs
- 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

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) program

Essential Medical | Malvern, PA

Product Development Co-op   September 2013 - March 2014
- Built and tested over 500 vascular closure devices for sealing capability and functionality
- Wrote critical documents, 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

SpotifyAPI Playlist Generator | https://agnias47.github.io/SpotifyAPI
- Generates a Spotify playlist for a user from a text-based list of tracks

Secret Santa Selection Manager | https://agnias47.github.io/Secret_Santa
- Makes Secret Santa selections for a group, considering exceptions, and emails the assignments to participants

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)