Hervé Nyemeck

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Objective

To apply my academic knowledge, research experience, and creative ability to pursue a career in the field of software engineering.

Qualifications

- ✓ Experience in Object Oriented Programming in Python, exposure in Java
- ✓ Highly proficient in Python and JavaScript, exposure to Java and C#
- ✓ Highly proficient in the use of development tools such as Git, TFS, Visual Studio
- ✓ Exposure to web development frameworks such as React.js and Django
- ✓ Exposure to Android development using Android Studio (Kotlin/Java), Google Firebase, and Amazon Web Services
- ✓ Experience in using packaging tools such as Gradle and NPM (JSON)
- ✓ Experience in engineering simulation using ANSYS Mechanical and ANSYS Discovery
- ✓ Experience in Linux (CentOS, SUSE, RedHat)
- ✓ Moderate experience in web automation using tools such as Selenium

Experience

Software Testing Co-Op, *ANSYS Inc.*, Canonsburg, PA January 2018 – August 2019

- Wrote code for and tested engineering simulation for ANSYS' Mechanical Solver using testing harnesses
    - Created integration and regression tests, developed helper files in Python and JavaScript
        - Wrote tool to validate mesh inputs in ANSYS against imported baseline
        - Refactored XML parsing tool to use standard python libraries
    - Wrote coverage matrices and test plans for areas of product
    - Reviewed developer code through pull requests, validated and tested changes
- Developed syntax highlighter extension for proprietary file types using scopes and regular expressions within VS
    - Developed language grammar
    - Created rules and scope selectors based on Microsoft TypeScript
- Created regression tests ran against additive manufacturing simulations and other ANSYS workflows
- Tested support generation and validated residual stress on various simulated builds with different additive materials
- Tested different meshing and voxelization techniques for FEA materials and builds

Junior Web Developer, *America's Future Workforce*, Washington, DC June 2016 – August 2016

- Designed and formatted front-end of various webpages using HTML and CSS

Education

Bachelor of Science – University of Pittsburgh – Major: Mechanical Engineering – Expected Date of Conferment: Dec. 2019
Current Cumulative GPA: 3.0/4.0
High School Diploma – School Without Walls Senior High School, Washington DC
Extra – George Washington University Early College Program (1 Semester)

Extracurricular Activities

Pitt WiCS (Women/Diversity in Computer Science), *Member* September 2018 – Present
Pitt Aero, *Member(fuselage)* September 2017 – January 2018
Pitt Improvisation, *Member* September 2015 – April 2017

Projects

AlbumRandomizer App
Developed android app to randomly choose and display album art from google firebase database with history

Honors/Awards

First Place Winner in Engineering at DC STEM Fair – March 2015
Researched hydrogen combustion technology and efficiency for a year using ChemFOAM simulation software
First Place Excellence in Engineering – ASME – Awarded for research on hydrogen combustion technology
International Society for Performance Improvement – 5-minute Science Fair – Runner up prize winner for research on hydrogen combustion technology