Luke Deratzou

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**EDUCATION**

**Worcester Polytechnic Institute (WPI), Worcester, MA**

Bachelor and Masters of Science in Computer Science May 2023

GPA 3.97/4.0, Dean’s List

Classes: Software Engineering, Algorithms, Object-Oriented Analysis and Design, OS, AI, Compilers

**WORK EXPERIENCE**

**Software Engineer Intern–** Arista Networks May 2022-August 2022

* Worked on layer 3 technologies, adding production features to switches using C++
* Wrote python tests to validate the features and utilized pdb to debug failures
* Followed a CI/CD pipeline while collaborating on a team and utilizing version control

**Software Engineer Intern**– HCL February 2022-May 2022

* Learned Alteryx to solve data science problems and tasks and partook in daily scrum
* Completed a capstone project predicting and analyzing spend trends for car prices using Alteryx

**Software Engineer Intern-** HPR June 2021-August 2021

* Coded in C to develop tests and test infrastructure for company production code
* Worked in linux environments with terminal commands to run and debug code
* Collaborated with co-workers to test their developing code, utilizing good git etiquette.

**SKILLS**

**Programming Languages:** Java, Python, C#, JavaScript, C, C++, PHP, Swift, Lisp, Bash

**Software:** Visual Studio, Unity, XCode, cPanel, IntelliJ, VirtualBox, Excel, R Studio, Eclipse, Vim

**Other:** ExpressJS, Bootstrap, JavaFX, MongoDB, NodeJS, GitHub/git, React, AWS, NextJS, Docker

**PROJECTS**

**Machine Learning for Spend Procurement**, WPI October 2021-December 2021

* Contributed to machine learning project for financial institution on spend procurement
* Utilized technologies such as python, sklearn, AWS, snowflake, control-M, and winSCP
* Worked under agile scrum with daily meetings with team and company employees

**AR/VR Research Project,** WPI January 2021-May 2021

* Developed an AR application for 1-on-1 online therapy and to collect telemetric data
* Utilized tools such as GitLab, Unity, and Visual Studio to research and develop the app
* Collaborated with a team of two other students and professors, with weekly meetings

**Portable Physicist**, Perkiomen School January 2018-May 2019

* Developed an iOS application using Swift to assist students in physics courses
* Collaborated with over 20 students and faculty to debug the program and develop ideas
* Presented the application as my capstone project to the board of trustees

**ACTIVITIES**

* WPI Magic Club, President February 2021-Present
* Upsilon Pi Epsilon, Member December 2020-Present