Luke Deratzou

lukederatzou@gmail.com

EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor and Master of Science in Computer Science GPA 4.0/4.0, Dean's List

May 2023

Perkiomen School, Pennsburg, PA

High School Diploma, Entrepreneurship distinction GPA 4.0/4.0, Valedictorian, Cum Laude Society Inductee

May 2019

SKILLS

Programming Languages: Java, Python, C#, JavaScript, C, C++, PHP, Swift, Lisp **Software:** Visual Studio, Unity, XCode, cPanel, IntelliJ, VirtualBox, Google Drive

RELEVANT COURSEWORK

Accelerated Object-Oriented Design Concepts—Java Algorithms—Java
Systems Programming Concepts—C/C++
Machine Organization and Assembly Language

PROJECTS

KMP Algorithm Research Project, WPI

April-May 2020

- Collaborated with a team of four to research the KMP substring search algorithm
- Devised extensive empirical testing suites for the KMP algorithm in Java
- Compared the order of growth of a brute force substring search algorithm to KMP

Drag and Drop Equation Editor, WPI

December 2019

- Created a JavaFX program utilizing data structures such as binary trees and linked lists
- Collaborated with other students to complete the project, utilizing GitHub

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

Website: D&T Central, Personal project

December 2017-July 2019

- Utilized JavaScript, MySQL, and PHP, to make the website responsive and professional
- Communicated through social media to network and promote the website

WORK EXPERIENCE

Online Private Instructor—iD Tech Camps

June 2020-Present

- Tutored students online on computer science fundamentals and programming languages
- Taught Python, Unity, Java, and JavaScript to kids of varying ages in one-hour lessons

Dietary Aid—Sacred Heart Senior Living, Saucon Valley, PA

June 2017-February 2018

- Communicated with a ten-person team and residents to provide services
- Collaborated with a team to deliver dining experience to residents and clean up