

Luke Deratzou

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor of Science in Computer Science

May 2022

GPA 4.0/4.0, Dean's List

Notable Classes: Webware, Algorithms, Accelerated Object-Oriented Programming

Perkiomen School, Pennsburg, PA

High School Diploma, Entrepreneurship distinction

May 2019

GPA 4.0/4.0, Valedictorian, Cum Laude Society Inductee

SKILLS

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

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

Other: ExpressJS, Bootstrap, JavaFX, MongoDB, NodeJS, GitHub/git, React, WebSocket

PROJECTS

Webware Final Project: One Word Story, WPI

October 2020

- Worked in a team of four to make a full stack web application from scratch
- Used git, Express JS, Node JS, React, and WebSocket to develop the application

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

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

ACTIVITIES

- WPI Magic Club, Vice President

February 2020-Present

- IGDA, Member

August 2019-Present