

Timothy C. Kueny
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Education:

Virginia Polytechnic Institute, School of Engineering, Blacksburg, VA
Bachelor of Science - Computer Science, January 2021

Central Bucks East High School, Doylestown PA
Cum Laude, Scholars Diploma, 2016

Applicable Skills:

- Job experience with JQuery, PHP, Python, Threejs, Blender, Python, React, HTML, CSS, Wordpress, WooCommerce
- 4 years of experience Python, JavaScript
- 2-3 years experience in C, Java, HTML CSS
- 1-2 years experience in Swift, C++, Linux
- Proficient use with machine learning
- Basic use in Fortran, ANTLR, Lua, Ruby, Perl, SQL,
- Basic use with AWS Lambda, Lightsail
- 3D printing and design with Blender, SolidWorks, Autodesk Inventor

Work Experience:

Round Three, January 2022 - July 2022

Lead Front End Developer and Project Manager. Using a Three.js framework to create a landscape UI that presented information. Began creating and developing the home screen and environment as well and pulling data from a custom MySQL Server and displaying that creatively on our custom Apache Server. Lead a team to develop, modify and implement various aspects of model development using Blender, Python. Also coordinated and worked with a small team of developers for front end development, back end development, and IOS and Android app development.

Anion Creative, May 2021 - Nov 2021

Junior developer involved in all aspects of website development: graphic design, website design, and website development. At a client's request, a comp would be developed personally but most often by a client or coworker. The websites' were structured with Wordpress and Woocommerce for the backend framework, PHP and JQuery for the middle ground, and HTML CSS for the front end.

Work Experience:

IT Technician CompuCon/Lowes, March 2020

This short contracting job consisted of traveling to different Lowes locations in order to fix problems with registers, signature capture machines and other items through out all departments. This job required lots of hands-on learning with little preparation.

Sharkey's Wing and Rib Joint, June 2019-March 2020

Employed as a cook between school hours. Responsible for cooking a wide range of foods including burgers, wraps, wings, and ribs. Worked as member of a team for the timely execution of orders. Responsible for the open and close the restaurant under Board of Health guidelines.

School Projects:

Machine Learning:

Explored many different basic machine learning algorithms fundamentals of representing uncertainty, learning from data, supervised learning, unsupervised learning, and learning theory. Some projects include making COVID-19 predictions, image classifiers, and word classifiers, among others. (Python)

Enviorvision

Created as part of the senior design Capstone. Worked with a small team to make a virtual landscape that reacted to historical climate data. Personal responsibilities included collecting and manipulating data, designed visuals. This is the link to the website: <https://samiea.github.io/Envirovision/> (Javascript-React)

Comparative Microbiology Informatics

Breadth of topics covering structural bioinformatics; modeling and simulation of biological networks; computational sequence analysis; algorithms for reconstructing phylogenies; computational systems biology. Created pseudo and working code for most topics. (Python)

Data Structures and Algorithms

Created DNA data base. Translated DNA sequences as binary, stored them in a memory file sorted by a hash function. Results included memory management techniques learned when organizing kilobytes of data. (Java)

Merge and external sorter. Dealt with large sums of data. Read the data into 512 byte blocks, used a minheap to sort the block. Merged blocks together in an output buffer and used an external minheap sorting algorithm to put sorted blocks together into a final output file. (Java)

School Projects:

Mobile App Development

Created a variety of mobile apps in Swift for app iPhone use. Mostly focused on incorporating API data from various sources to make music apps, tourist apps, video playing apps and much more. (Swift)

Personal Interests:

Kayaking, Lacrosse, Snowboarding