MICHAEL YEH

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Skills

PROGRAMMING AND SCRIPTING LANGUAGES

Java
C
C++
C#
Python
UNIX Scripting
ARM Assembly
Batch Scripting

WEB-DEVELOPMENT

HTML 5
CSS
Bootstrap
JavaScript

MISCELLANEOUS

Mathematics
Spanish Literate
3D Modeling
3D Printing
Git/GitHub
Visual Studio Code

DEBUGGING TOOLS

GDB
JDB
Valgrind
JUnit
Python DocTests

Education

University of California - San Diego
2018 to 2022

Bachelor's in Mathematics - Computer Science
Additional Area of Study in Cognitive Science
GPA: 3.5

Employment

Self-Employed
Java & Python Tutor For College Students
2014 to Dec. 2019

- Create graphics and visuals to assist students in understanding topics covered in students' college courses through various graphics software such as Paint.net and Photoshop.
- Help students complete programming assignments by advising students on appropriate techniques and algorithms to use based on the context and assignment both in person and online.

Self-Employed
Math Tutor
2017 to Current

- Create personalized problems by taking into account student's interests to assist in learning on various topics covered in student's homework and the Common Core curriculum.

Projects

ECOBullets - Biodegradable Ammunition
Nov. 2016 to Feb. 2017

- The US Department of Defense found spent ammunition from military training creates regions that are hard to cultivate and damages the environment so they began to search for environmentally-friendly, biodegradable ammunition.
- I experimented with materials while creating functional prototype ammunition that replaces traditional lead projectiles and brass casing with biodegradable materials.
- My projectiles were tested and confirmed by high-speed cameras to be the first 3D-printed prototypes to be stable in super-sonic flight. Then, I experimented with 3D-printed shotgun cartridges.

NFC Rings
2015

- Began business to provide a cheaper alternative to current market options of NFC rings.
- Self-taught 3D modeling using TinkerCAD and SketchUp. Designed and tested rings through 3D-printing.
- Designed a crowdfunding page with HTML and Paint.net and surpassed the goal on IndieGoGo.com.

Related Coursework

CSE 11 & 12: Data Structures and Object-Oriented Design

- Courses based on Java, C, and C++
- Studied multi-threading in Java and JavaFX
- Simulated a Layered Architecture Web Server
- Created data structures such as stacks, queues, heaps, and binary trees

CSE 30: Computer Organization and Systems

- Worked in C and ARM Assembly to learn about computer architecture and low-level computer programming

COGS 3: Front-End Development Tools

- Created a portfolio with HTML, CSS, Bootstrap 4, JavaScript, and Photoshop

MATH 20C-E & 109: Upper-Division and Accelerated Math Courses

- 3 accelerated courses for differential, vector, and multi-variable calculus
- Upper-division course for mathematical reasoning and analysis