

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

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

San Diego

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

San Diego

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 in November of 2016.
- 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 when fired out of a shotgun. Then, I experimented with completely 3D-printed shotgun cartridges.

NFC Rings

2015

- Noticed a flaw in the market and began business to provide a cheaper alternative to current market options of NFC rings.
- Self-taught 3D modeling on the TinkerCAD and SketchUp platforms. Then designed and tested rings through 3D-printing.
- Designed a crowdfunding page with HTML and Paint.net, then managed and surpassed the \$2000 goal on IndieGoGo.com.
- Assembled, shipped, and fulfilled all orders (managed on Google Sheets)

Related Coursework

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

- Studied multi-threading in Java and JavaFX
- Simulated a Layered Architecture Web Server
- Course based on Java, C, and C++
- 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 & 109Upper-Division and Accelerated Math Courses

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