

Eric Zhang

Computer Engineering Student

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Education

2018-09 - Present

University of California: Los Angeles

3rd Year Computer Engineering Student: Pursuing Bachelor of Science Degree

- GPA: 3.5

- Relevant Courses:

Python Programming I

Software Construction

Artificial Intelligence

Systems and Signals

Linear Algebra

C++ Programming I,II

Computer Algorithms

Electrical Engineering I

Electronics/Circuits

Discrete Math

Computer Organization

Operating Systems

Digital Logic Design

Physics I,II,III

Work Experience

2020-08 - Present

Fuse Breakers Tech

Machine Learning Intern

- Development of a machine learning application to predict hospital resource usage and case severity for COVID19 patients through an internship with a local company. (Python)

Skills

Computer Languages (ordered by decreasing experience)

- Python, C++, C, Javascript, Assembly, Lisp, HTML, Verilog, SQL, Java

Strengths in Software

- Algorithms, Computer Architecture, Databasing, Data Structures, Function/Object Oriented Programming, Machine Learning, Operating Systems, Version Control, Web Development

Strengths in Hardware

- Circuit/PCB Design, Computer/Servers, Digital Logic Design, Electronics Lab Equipment, Hardware, Integrated Circuits, Microcontrollers/Sensors, Soldering, Systems/Signals

Familiar Tools

- Autodesk Suite, Commonplace IDEs, EAGLE PCB, Emacs/Vim, MATLAB, Microsoft Office Suite , MySQL, Windows/Linux OS and Console

Recent Projects

2020-06 - Present

CHF Machine Learning (Python)

- Machine Learning application for retrospective analysis on cases of congestive heart failure. Gradient boosting and cross validation is applied to train models used in predicting hospital readmittance and mortality based on past data.

2018-10 - Present

Aircopter (C++, EAGLE)

- A project in association with the IEEE student branch that focuses on low level software and hardware development to create a functional, remote quadcopter. Involves the design and assembly of a custom PCB and code to parse, process, and transmit sensor data.

2019-06 - 2019-10

Magic Mirror (C)

- A RaspberryPi project based on designing a custom user interface that fetches data from various APIs to give information on weather and news. Connects with audio-visual systems like Amazon Alexa and integrates smart home devices into the interface.