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	C++ Programming I,II	Computer Organization
Software Construction	Computer Algorithms	Operating Systems
Artificial Intelligence	Electrical Engineering I	Digital Logic Design
Systems and Signals	Electronics/Circuits	Physics I,II,III
Linear Algebra	Discrete Math	

Work Experience

2020-06 - Present

Fuse Breakers Tech

Machine Learning Intern

- Development of a machine learning application to predict hospital resource usage and case severity in COVID19 patients. Part of a research project done with a local organization. (Python)

Skills

Computer Languages (ordered by decreasing experience)

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

Strengths in Software

- AI, Algorithms, API Usage, Coding/Debugging, Computer Architecture, Databasing, Data Structures, Function/Object Oriented Programming, Machine Learning, Operating Systems, Optimization, Scripting, Version Control, Web Development

Strengths in Hardware

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

Familiar Tools

- Autodesk Suite, Commonplace IDEs, Debuggers, 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 are applied to train models used in predicting hospital readmittance and mortality based on past data.

2018-10 - Present

Aircopter (C++, EAGLE)

- A team 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 communicate 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.