Eric Zhang

Computer Engineering Student

2019-06 – 2019-10

2018-10 - 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.

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.

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.

2020-06 - Present

Recent Projects

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

Skills

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)

2020-08 - Present

Work Experience

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

2018-09 - Present

Education

GitHub https://github.com/Ericzklm

LinkedIn https://www.linkedin.com/in/eric-zhang-aa8b07174/

Website https://ericzhang.net

E-mail ericzklm@hotmail.com

Phone (916)-239-5866