DUY NGUYEN

San Jose, CA | (408) 540-8682 | duy.yuuwe@pm.me | linkedin.com/in/yuuwe | github.com/yuuwe-n

PROJECTS

RateMyProfessors.help | *Go, Python, ReactJS, PostgreSQL, Jenkins, OpenBSD*   July 2022 - Present
- Developed a full stack web application to sort ratings of professors for specified courses.
- Collected data on 965 unique courses from colleges through web scraping and API data.
- Implemented a RESTful API with Go's httprouter to serve cached data from a PostgreSQL Database.
- Managed and hardened server applications through creating, documenting, and deploying UNIX services.
- Deployed a continuous integration and development pipeline to seamlessly deliver updates to end users.

6502 Breadboard Computer | *Assembly, Logic Design, Micro-controllers*   August 2022 - Present
- Assembled a computer using breadboards with the 6502 microprocessor, 555 timer clock, and various ICs.
- Interfaced with integrated circuits such as the AT28C256 EEPROM, VIA, and SRAM to implement IO.
- Utilised the Arduino Mega 2560 micro-controller for developing and debugging the 6502 computer.
- Contributed towards documenting the build process for OpenBSD's Arduino AVR MCU Programmer.

Writer-Ups.com | *POSIX Script, HTML/CSS/Javascript, OpenBSD*   January 2022 - December 2022
- Created a custom static website generator using POSIX sh to create step by step solutions to physics problems.
- Supported converting and rendering LATEX from Markdown into HTML for visualizing physics solutions.

Pico-Pomodoro | *MicroPython, C/C++, Micro-controllers*   August 2022 - December 2022
- Developed and assembled a physical Pomodoro timer with the use of a Raspberry Pico micro-controller.
- Documented Python, C/C++ Toolchain, and Developer Tools for the Raspberry Pi Pico on OpenBSD.

Neuron-Ml | *Python, Tensorflow, Flask API, Apache2, Linux*   January 2020
- Developed a RESTful API with Flask to serve, process, and detect cases of pneumonia using Machine Learning.
- Collaborated to create a Tensorflow model using a data set of X-ray scans during a 24-hour hackathon.

EXPERIENCE

Introduction to Java Instructor   June 2021 – July 2021
Path to Learn Education   *San Jose, CA*
- Created a curriculum dedicated towards teaching Middle/High school students computer science.
- Taught students the fundamental paradigms of Object Oriented Programming to help code management.
- Responsible for instructing, assigning, and grading assignments for a class of approximately 24 students.

Web Development Instructor   June 2018 – July 2018
Code Matrix   *San Jose, CA*
- Collaborated to instruct Elementary students the basics web technology and computer science.
- Established a open, safe, and caring environment for students to express creativity.

EDUCATION

De Anza College   September 2022 – May 2024
Electrical Engineering   *Cupertino, CA*
- GPA: 4.0 — Relevant Coursework: Computer Architecture, Data Structures, Object Oriented Programming

TECHNICAL SKILLS

Languages: Java, Go/Golang, Python, Assembly, POSIX Scripting, Rust, C, SQL, HTML/CSS, Javascript
Deployment: Virtualization, Docker, Kubernetes, OpenBSD, Linux, FreeBSD, ZFS, Jenkins, httpd/apache2, relayd
Technologies: Data structures, TCP/IP, Logic Design, 6502 Microprocessor, Micro-controllers, 3D Printing