Tom Nguyen

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Summary

Talented web developer with over 1,000 hours of hands-on experience with coding. Demonstrated skills in Django, MEAN, and Java Spring Framework. Skilled in HTML/DOM, CSS, Java, Python, JavaScript, Windows and Mac. Strong computer science background, graduating from California State University Los Angeles.

Technical Skills

- Languages: JavaScript /HTML/CSS | Java | Python
- Frameworks: Flask, Django, MEAN, Java Spring
- Database: MySQL, MongoDB, Sqlite

Technical Projects

AI Flappy Bird | Coding Dojo, Burbank | Los Angeles, CA   November 2019

- My interest in AI allowed me to be passionate in creating this remake of the popular mobile game "Flappy Bird" and used machine learning to have the game operate autonomously in 1 week
- Explored and implemented a simple version of Neural Network that make a copy and mutate the version of the bird
- Implemented game logic using the idea of Reinforcement Learning that utilize the Genetic Algorithm to train the bird decided to jump or not jump based on the reward
- Tools used: HTML Canvas, Python

School Library Platform | Coding Dojo, Burbank | Los Angeles, CA   October 2019

- Implemented and Developed a school library platform using Django Framework in 1 week
- Created a user-friendly prototype library website so users can go and browse for books.
- Only registered students can borrow a book by logging in to the system and checking out the book
- Tools used: HTML/CSS, Python, Django, Bootstrap, SQLite, Mongoose

Sidewalk Slope Detection (SSD) | California State University | Los Angeles, CA   2018-2019

Sponsor: The City of Los Angeles, Bureau of Engineering

- Designed and implemented a productivity tool for Raspberry Pi using Python script in 26 weeks
- Implemented automated image record using OpenCV module with timestamp included
- Determined the slope of the sidewalk by measuring the angular rate in Micro-Electro-Mechanical System (MEMS) Gyroscope
- Implemented clickable graph from data collected and display with images at each timestamp on a website using RESTful API
- Tools used: HTML/CSS, Bootstrap, Python, OpenCV, RESTful API

Professional Experience

Freelance E-Commerce Reseller | Los Angeles, CA   2017-Present

- Using scripts/bots to automate checkout process on high-demand footwear and clothing to niche markets throughout the US

Education

- **Coding Dojo | Full-Stack Developer Training | Burbank, CA**   September 2019 – December 2019
    - Full-Stack Certificate in Django, MEAN, Java Spring Framework
    - Completed over 800 hours of web development experience over 14 weeks in a fully immersive coding environment
- **California State University | Los Angeles, CA**   May 2019
    - BS in Computer Science