ANDREW WANG SOFTWARE

ENGINEER

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♀ New York City

in /in/andrewyw

AndrewYW

Skills

TECHNOLOGIES

Python

Ruby

Javascript

Java

Ruby on Rails

React/Redux

SQL

HTML5

CSS3

Git

nodeJS

MongoDB

Android

Express

NOTABLE COURSEWORK:

Computer Science: Data Structures, Computer Architecture, Software Methodology, Principles of Information and Data Management, Introduction to Artificial Intelligence.

Mathematics: Linear Algebra, Graph Theory, Theory of Probability, Cryptography, Differential Equations, Real Analysis

Projects

Harmony
Fullstack React/Rails Discord Clone

Optimized AJAX requests by automatically filtering results by user, reducing loading times Incorporated ActionCable websocket framework for real time text messaging

Built specific design patterns used by the actual Discord to provide ease of integration for future features.

A* Pathfinder Feb. 2019 to Current

Javascript implementation of heuristic pathfinding algorithms in a discretized grid environment. Software generates randomized grid terrain (e.g. Civilization games maps) and start and goal vertices.

User chooses one of various heuristic functions in the A* search family to find a path between the vertices.

Analyzed time/space complexity of each algorithm to provide comparison points.

NJData Dec. 2017

Python Flask web application covering NJ presidential election voting history

Covered various voting factors including gender, GDP, and population growth for detailed view of demographics.

Predicted NJ county election results for 2016 based on sampled data, with 90% accuracy.

Chess Dec. 2016

Android chess application implemented with Java and Android Studio.

Uses java.io. Serializable interface for game recording, playback, and local storage.

Education

App Academy

Software Development

1000 hour immersive software development course with focus on full stack web development

Rutgers University

BA Mathematics

Minor Computer Science

Minor Music

Completing part time

Hong Kong University of Science and Technology

Study abroad Summer

Coursework in C, Python, and electro-robotic design

Employment

Medeo Fencing Club

New Jersey

Fencing Coach, Asst./Head Coach for Willow Private School

2013 to 2016

2017 to Current

Nov. 2018 to Feb. 2019

2013 to 2018

2015

Ian. 2019 to Current

Maintained quality and standards set by previous head coach, a former NCAA champion and Jamaican national team member.

Provided resources and direction for parents and students seeking improvement outside of school setting, in conjunction with local fencing club.

US Air Force Parent's Association of New Jersey

Remote

Web Administrator

https://www.njafapa.org

Creator and administrator of NJAFA Parent's Association website

Renovated and automated many features including signup, payment, and event organization (including ecommerce)

Manage 200 users and communications with the official AFA parent's liaison