ANDREW WANG

SOFTWARE ENGINEER

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♀ New York City

in andrewyw

AndrewYW

Skills

TECHNOLOGIES

Ruby

Ruby on Rails

Javascript

Python

Java

React/Redux

SQL

MongoDB

HTML5

CSS3

D3.js

Git

GraphQL

WebGL

nodeJS

Express

Linux

Android

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.

Chess Dec. 2016

Android chess application implemented with Java and Android Studio.

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

Employment

Freelance Full Stack Developer

Remote/NYC

Self-Employed

May 2019 to Current

lan. 2019 to Current

Full stack application development using Ruby on Rails, React, Postgres, d3.js, and WebGL.

Leveraged technical and mathematical expertise to architect database schema and data visualization for client's web application.

Web Administrator

Remote

US Air Force Parent's Association of New Jersey

2017 to Current

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

Education

App Academy

Nov. 2018 to Feb. 2019

Software Development

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

Rutgers University

2013 to 2018

BA Mathematics

Minor Computer Science

Minor Music

Hong Kong University of Science and Technology

2015

Study abroad Summer

Coursework in C, Python, and electro-robotic design