

ANDREW WANG

SOFTWARE ENGINEER

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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 Jan. 2019 to Current
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.

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
Completing part time

Hong Kong University of Science and Technology 2015
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
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 2017 to Current
<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