

Andrew Wang | Software Developer

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[LinkedIn](#) | [Personal](#) | [Github](#)

SKILLS

Ruby, Java, Python, C, JavaScript, Ruby on Rails, jQuery, React/Redux, SQL, Git, HTML5, CSS3

EDUCATION

App Academy

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

Rutgers University

BA - Mathematics
Minors: Computer Science, Music

Currently completing part time

Hong Kong University of Science and Technology
Study abroad Summer

Coursework in C, Python, and Electro-robotic design

Notable courses

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: [Live Site](#) | [Github](#)

Fullstack React/Rails Discord Clone

- Optimized AJAX requests by automatically filtering results by user, reducing loading times
- Incorporated websocket and webRTC frameworks for real time text and voice messaging
- Built specific design patterns used by the actual Discord to provide ease of integration for future features.

A* Pathfinder: [Live Site](#) | [Github](#)

Javascript implementation of heuristic pathfinding algorithms in a 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: [Github](#)

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.

EXPERIENCE

Web Administrator | 2017 - current

US Air Force Parent's Association of New Jersey -

<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

Fencing Coach | 2013 - 2016

Private fencing coach, Head coach for Willow Private School

- 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.