

Charles Agudelo

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EDUCATION

Computer Science, BS | SUNY New Paltz | (May 2021)

GPA: 3.3

Relevant Courses: Operating Systems, Object Oriented Programming, Software Engineering, Database Design, Web Programming, Foundations in Data Science, Language Processing, Discrete and Continuous Algorithms, Computer Science III, Visual Programming, Embedded Linux, Digital Logic Fundamentals and Capstone

Computer Science, AS | Westchester Community College | (May 2019)

SKILLS

- Programming (Java, C++, Python, JavaScript, TypeScript, React/Redux, React Native, SQL, PHP, Vue, Bash, Node, Express)
- Git version control, Heroku Deployment
- Microsoft Office 365 Proficient
- Linux and Windows Operating Systems
- Spanish Language Proficient

SOFTWARE PROJECTS

- Full stack E-com Website | <https://ecom-mern-stack.herokuapp.com> | (Web Development)
A full stack application using MySQL, Express, React, and Node to develop an online store front for a fictions comic book store. Full Rest API written in Express used to interact with a Relational Database that has been normalized to a third normal form, and managed using MySQL. Front end written using React with a TypeScript template to reduce errors after production, and statically served in Express on a Node server. Contains login and signup forms with accommodating form validation, item lookup by category search, and a completion of sales with past purchase history!
- Taxi Service Mobile App | <https://expo.dev/@charles-afk/taxi-mobile-app> | (Mobile Development)
A mobile app which simulates a taxi service, written using React Native and the Redux library. Utilizing third party API's, specifically Google's Places API to generate a predictive list of locations that the user is typing in, Google's Direction's API which returns JSON with specific latitude and longitude coordinates that are pinned on to a map, and the Distance Matrix API to judge how far two locations are providing custom costs to each individual trip!
- Operating System Visualization | <https://cs.newpaltz.edu/p/s21-06> | (Web Development)
Lead a team of four developers in the creation of a webpage to help students understand the core concepts of operating systems by creating animations for CPU Scheduling, Disk Scheduling, Page Replacements, and Memory/File Allocation. Responsible for the implementation of a GUI control panel for CPU Scheduling using JavaScript DOM manipulation, and retrieval of input data from a file on the school's server using XML, as well as being responsible for writing a PHP script that randomized input data for all operating system algorithms for testing purposes.

ORGANIZATIONS AND ACTIVITIES

- Computer Science Club (SUNY New Paltz) (Fall 2020 – Spring 2021)
- Computer Science Club (Westchester Community College) (Fall 2017 – Spring 2019)
- Society of Hispanic Engineers (Spring 2021)
- Seasonal Lifeguard before and during COVID (Spring 2017 – Summer 2020)