Chanu Jonathan Choi

Software Engineer @ Long Island, New York

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Education

Binghamton University | Thomas J. Watson School of Engineering and Applied Science

Bachelor of Science in Computer Science | Overall GPA: 3.0/4.0   Aug 2015 - May 2019
- Watson Dean's List: Fall of 2016
- Data Structures and Algorithms, Advanced OOP, Design and Analysis of Algorithms

App Academy

Fullstack Web Development   Jan 2020 - May 2020
- Intensive 1000+ hour software developer curriculum
- < 3% acceptance rate

Skills

Languages: JavaScript | HTML5 | SCSS | Python | C++ | Java | Ruby | C | SQL | Mongoose

Frameworks & Libraries: Rails | React | Redux | Node.js | MongoDB | PostgreSQL | Git | Express.js | Heroku | Webpack

Projects

Chillify | [JavaScript, Ruby on Rails, React, Redux, HTML5, SCSS]   Live | Github

A chill clone of the digital music service Spotify
- Constructed a search feature using database queries to efficiently grab and display desired data to users.
- Heightened speed and scalability through eager loading with AJAX requests to remove N + 1 queries.
- Integrated Redux with HTML5 web components using AJAX requests to connect source links to audio tags, creating a customized playback for users that works continuously through all components of the app.

Celestial Struggle | [JavaScript, CanvasHTML, CSS, HTML5]   Live | Github

Chaotic space shooter inspired by Galaga
- Developed layers of gaming logic through the implementation of keydown and keyup event listeners that move objects on the window.
- Applied Canvas API through JavaScript and the HTML canvas element to draw images on each animation frame to simulate movement onto the window for pleasant user experience.
- Applied ES6 module syntax to allow for highly configurable and easily deployable code.

fitChallenger | **[**JavaScript, React, Node.js, HTML5, CSS**,** MongoDB**,** Express]   Live | Github

Fitness application where you can challenge friends to reach fitness goals
- Improved the user interface through CSS pseudo-selectors such as focus and hover which change dynamically through the use of JavaScript.
- Utilized MongoDB to store schema and tables for faster responses through the document-oriented data model, allowing for ease in modifying data fields.
- Resolved Express.js to easily develop in Node.js through given functions to route the frontend to the backend.

Experience

Web Developer Intern | *Global Health Impact*   Sept 2017 – Jan 2018
- Compiled 1000 lines of code to design graphic data-visualizations of the global impacts of pharmaceutical products using SQLite.
- Contributed to a website built using Python, HTML, CSS, and SQL that was hosted on Flask.
- Incorporated Python Flask as a web server to improve user experience.

Lead Teacher | *APC Summer Camp*   Jun 2016 – Aug 2019
- Implemented NYS Common Core Math, ELA, and Writing curriculum for fifteen 6th grade students.
- Restructured the curriculum for the guitar elective, resulting in improved learning rates by the students.
- Oversaw a team of 3 other teachers and led weekly meetings to improve staff morale and unity.