Joshua Gorman Hoboken, NJ

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Education

Stevens Institute of Technology **Hoboken, NJ**

Bachelor of Science in Computer Science | GPA: 3.89/4 Expected Grad: May 2024

Relevant Coursework: Data Structures, Linear Algebra, Discrete Structures, Algorithms, Web Programming I, Computer Architecture and Organization

Extracurriculars: *Software Engineering Club Secretary, Computer Science Club, Game Development Club*

Technical Skills

Languages: Java, Python, JavaScript/TypeScript, HTML/CSS, C/C++
Frameworks: NodeJS, React, TailwindCSS, NextJS, Express
Tools: Git/Github, Figma, VSCode, Xcode, Adobe Illustrator/XD
Libraries: jQuery, LeafletJS
Databases: MongoDB

Experience

Stevens Institute of Technology **Hoboken, NJ**

Research Assistant June 2022 – Aug 2022

Technologies Used: JavaScript, HTML, CSS, jQuery, LeafletJS

- Researched with NUKEMAP creator to bring similar visualizations to meteor strike models in JavaScript.
- Optimized complex physics based calculations and translated them into JavaScript functions.
- Designed a test bed environment with HTML, CSS, and JavaScript to experiment and test equations.
- Utilized Leaflet.js and OpenStreetMaps to provide an interactive map displaying important simulation info.

Projects

Personal Website — Website

Technologies Used: TypeScript, NextJS, TailwindCSS, PostCSS, React, Framer Motion

- Designed a personal website with NextJS and React to showcase personal projects and design skills.
- Utilized several modular components along with social media API's to fetch and showcase external data.

Monocle — Mobile & Web Application

Technologies Used: JavaScript, TypeScript, NodeJS, React, Expo, Heroku, Git

- Designed a mobile app to transcribe images of printed text from a photo using Expo's cross-platform service.
- Coordinated with backend developers to provide an interactive and smooth UI experience for users.
- Optimized photo compression to cut down on transcription time, while also cutting down on upload size.

Team Based Social Media — Full-stack Web Application

Technologies Used: JavaScript, Express, NodeJS, MongoDB, Handlebars

- Built a web application that allows users to create teams where they can find other users to collaborate on projects.
- Utilizes express and node for routing and server-side, with MongoDB for the main database and collections.
- Designed front-end components using Handlebars, which allowed for seamless integration with HTML and JS.

Virtual CPU + Language & Assembler — Software and Custom Language

Technologies Used: Python, Logisim-Evolution

- Built a CPU in logisim evolution that could execute arithmetic operations, as well as branching, loading, and storing.
- Developed a programming language for the CPU in Python which resembled the ARM assembly language.
- Generated instructions and data files to be loaded into the CPU, which could process and execute via control signals.