Namashivayan Sivaram

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Skills

LANGUAGES

- Python, Java, JavaScript, Typescript, MATLAB, R, C, C++, HTML/CSS

TOOLS & FRAMEWORKS

- React, NoSQL Database, NodeJS, Git, gulp, Ionic API, Figma, Jira, Confluence, Bitbucket, SourceTree,

Experience

SOFTWARE ENGINEERING INTERN | EIGEN FITNESS | APR – AUG 2022

- Implemented existing and built custom React components to create 'Teams' page with operational UI and pleasing UX to modify database information and work with existing component structure.
- Refactored user information framework in NoSQL Firebase database to include new designed 'Team' objects and increase access speed.
- Implemented entire Figma mockup leveraging HTML and CSS along with Bootstrap 5 libraries and Ionic React APIs for webpage creation: https://eigenfitness.com/

Education

HONORS COMPUTER SCIENCE | CURRENT | WESTERN UNIVERSITY

- Related coursework: Discrete Mathematics, Operating Systems, Data structures and Algorithms 1 & 2, Software Engineering, Object Oriented Programming, Computer Architecture, Project Management, Databases.

Projects

POKEMON RED REMAKE

- Java project including all original 151 Pokémon and features of original Pokémon Red version.
- Implemented abstract and robust Battle framework to handle all possible user decisions.
- Built with object-oriented design and extendibility such that new 'Pokémon', 'Moves', maps etc. can be added easily through text file metadata.

HOSA ISOMETRIC HAND GRIP DEVICE

- Development of a handgrip device utilizing ADC and weight scale sensors for pressure-based input.
- Established communication of device with a Raspberry Pi running a Python application for game control of simple platformer through GPIO pins and SPI protocol.
- Integration of researched intervals of isometric exertion in game design to mitigate the risk of heart disease.
- Achieved first place in Medical Innovation category at HOSA Canada 2019.

WESTERN MAP APP

- Java project that leverages Western University Maps to allow a user to browse maps, mark maps, save points of interest, and search maps. Admin ver. for extensibility to add maps and floors.
- Designed metadata structure for efficient saving and loading of user POIs.
- Developed responsive UI features such as POI dragging that reliably change metadata.