

GREGORY MACAT

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TECHNICAL SKILLS

Front End | TypeScript, JavaScript, HTML5, CSS, React, ExcelJS, Redux, Hooks, Bootstrap
Back End | C#, .NET, Node.js, Express, PostgreSQL, MongoDB, MySQL, RESTful API Development
Testing/Deployment | Chai, Jest, Enzyme, AWS EC2, Docker
Developer Tools | vim, git, npm, Webpack, Babel, Jira, Visual Studio, VS Code

EXPERIENCE

clTopus | SPJ Solutions - *Software Engineer*
El Dorado Hills, CA

2021 - 2022

- Refactor **ExcelJS** scripts that generate user facing excel workbooks that contain information about their vSphere environment to increase readability and expandability
- Structure requests sent to the vSphereSDK and VMWare API to perform CRUD operations on the virtualized environment's networks and security protocols while ensuring day to day operations are uninterrupted
- Optimize alterations of up to thousands of virtual machines by utilizing paginated requests and maintaining their data's relationships between by creating pertinent mappings
- Debug issues occurring at customer's site in coordination with the network consultants to ensure timely completion of the project using professional communication, expectation setting, and knowledge of the application's goals and methods of execution
- Peer review code and establish unit testing with **Jest** to prevent or quickly diagnose issues

Digital Twin | Toyota Material Handling, TXST - *Student Researcher*
San Marcos, TX

2019 - 2020

- Coordinate with motion capture team to follow set standards for data being passed to the model and validate that it is correct
- Utilized an inverse kinematics algorithm to transform the 3D model's limbs according to the data received from input through C#
- Increased frame rate by an average of 15 frames per second of the model's movements by using queues to ensure the model moves in the correct order

PROJECTS

Catwalk Website (<https://github.com/Mount-Doom/project-catwalk>)

Web application allowing a customer to shop and save favorite clothes into an outfit

- Created a custom modal displaying a comparison table using **CSS** and **Javascript**
- Implemented a carousel aspect that scrolls through related products using **React**

E-Commerce API (<https://github.com/Obsidian-Server/Service-Products>)

Recreate API for an existing E-Commerce site using data extracted from the existing database

- Refactored **PostgreSQL** database to handle over 6 million rows more efficiently

EDUCATION

Hack Reactor

Advanced Software
Engineering Immersive

Graduated 2021

Texas State University

Completed 82 credit hours towards B.S. Computer Science