**Kyul Kang**

Software Engineer

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**TECHNICAL SKILLS**

**Proficient:** *Node, Javascript, React / Redux, Git, Express, CSS3, HTML5, PostgreSQL, Webpack*

**Knowledgeable:** *TailwindCSS, JWT, bcrypt, PlayCanvas*

**Familiar:** *Java, Mocha, Jasmine, Socket.io*

**TECHNICAL PROJECTS**

**Fullfreak Games** | **Minigame Dev / Front-end Designer** | 12/2022

<https://www.fullfreak.games/>

*Interactive website which hosts a collection of minigames that are each developed by an individual team member*

* Designed and built an interactive layout for the web app, and created a multi-level, tile-based puzzle game
* Front-end development uses a stack of Next.js as front-end framework, and Tailwind for dynamic CSS

Minigames leverage PlayCanvas, an open-source HTML5 game engine which facilitates usage of 3D assets and physics

**Firefly** | **Developer** | 11/2022

<https://fireflyml.onrender.com/>

*HTML5 game built as a solo project which uses a rudimentary machine learning logic to move the players without player input, selecting the best performing neural network to be used by the succeeding batch of players*

* Built AI logic by referencing knowledge of the neural network model, and incorporated data persistence to train AI by comparing its performance across multiple generations
* Game is rendered using the canvas HTML element, with the machine learning logic written based on conceptual understanding of neural networks

**Grace Shopper** | **Back-end Developer / Front-end Developer (Admin func.)** | 11/2022

<https://grace-shopper-zuwc.onrender.com/>

*Full-stack e-commerce React application which allows users to shop, maintain a persistent cart, and check out their orders, powered by a Node.js REST API*

* Built back-end logic including database models, associations, and server routes. Encrypted user/admin routes to ensure secure exchange of information between user and database
* Front-end development uses React, with Redux as store of state. Back-end stack includes Sequelize as ORM for PostgreSQL, and Express for front-end integration. JWT and Bcrypt are used for token encryption and password encryption, respectively

**EXPERIENCE**

**Medical Technician | United States Army |** Fort Hood, TX08/2018 - 12/2022

* Managed operations for COVID testing facility from its inception in 06/2020, to closure in 05/2021
* Oversaw transfer of a daily average of ~100 samples to the hospital lab, mitigating spread of the pandemic in a military installation of 40,000 soldiers
* Trained and supervised a team of 3 behavioral health technicians assigned to an outpatient behavioral health clinic in clinical and administrative tasks
* Streamlined behavioral health care process for patients across 4 brigades with 3000~5000 soldiers each
* **Active Secret Security Clearance**

**EDUCATION**

**Fullstack Academy Web Development Bootcamp** 08/2022 - 12/2022

Software Engineering Certificate

Full-time, Full Stack Javascript Web Development Immersive

**LANGUAGES**

**Fluent:** English, Korean