You-Kwhan Kim

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EDUCATION

STONY BROOK UNIVERSITY   Sept 2018 - May 2022
Bachelor of Science in Applied Mathematics & Statistics, and Economics | *Dean's List 2018 - 2022*   Stony Brook, NY

Courses: Data Structures and Algorithms, Object-Oriented Programming in Java, Graph Theory, Discrete Math, Data Analytics, Statistical Programming, Data Science and Machine Learning, Linear Algebra

SKILLS

Programming: Python, TypeScript, Javascript, HTML5, CSS3
Libraries & Frameworks: React.js, Tailwind CSS, SASS
Tools & Others: Git, Github, Firebase, Figma, Netlify

EXPERIENCE

Software Engineering Fellow, Headstarter
June 2022 - Sep 2022
- Developed and deployed 3 full-stack CRUD applications by learning and using React, Firebase, Google Cloud Platform, and agile software delivery methods.
- Enabled real-time data entry capabilities and serverless APIs integration with Cloud Firestore, resulting in improved application performance and user experiences.
- Led a team of 4, in developing a calendar application by taking charge in code planning, work delegation, meeting scheduling, and engaging in pair programming with struggling team members.

Project Mentor, SBUHacks
SBUHacks 2020 | Repo
- Provided technical guidance in the 1st Stony Brook Hackathon, captivating over 800 registrations and engaging 300 participants, fostering innovation and collaborative problem-solving.
- In a team of 4 worked with one other student to code a racing game using Pygame, taking charge of player input, animation, sound effects, and collision detection.

PROJECTS

Vanlife | React, react-router, JavaScript, CSS, Firebase, Figma   Repo | Live Preview
- Developed a van rental landing page leveraging React Router 6 to create a seamless Single Page Application.
- Employed client-side routing to handle navigation, protected and nested routes, and rendering of components, resulting in a more interactive user experience without the need for full-page refreshes.
- Utilized Remix's server concepts of loaders and actions to efficiently perform data reads and writes, enabling parallel data fetching and enhancing overall performance.

Quizzical | React, JavaScript, CSS, Figma   Repo | Live Preview
- Designed and developed a responsive trivia quiz application that offers users a diverse range of trivia questions across various categories using the Trivia API.
- Implemented React hooks to establish a single source of truth, ensuring consistent flow and behavior in the application.

Movie Watchlist | Javascript, HTML, CSS, REST API   Repo | Live Preview
- Created a centralized web application to enhance the reliability and convenience of bookmarking users' favorite movies and TV shows.
- Leveraged the OMDb API to fetch and display movie information dynamically on the website.
- Implemented local storage functionality, allowing users to easily add and remove movies from personalized watchlists and ensured persistent data storage.

Reef Reviver | InnovateIT Hackathon   Reef Reviver
First Place Winner
- Winner of the "Best First Time Hacker" out of 40 participants at Stony Brook University.
- Within a 24-hour timeframe, assessed global issues related to rising temperatures in coral reefs and proposed innovative solutions.
- Played a key role in the design phase of the project using Autodesk Inventor, collaborating with the team to develop conceptual designs and create prototypes.