

Yeseong Kim

Front End Software Engineer

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EXPERIENCE

Machine Learning Research Assistant | Yonsei University

Jun 2022 – Sep 2022

- Improved accuracy in the diagnosis of patent ductus arteriosus (PDA) in low birth weight infants by implementing machine learning techniques, specifically utilizing the random forest algorithm within a decision support system.
- Conducted feature selection utilizing a wrapper method with a scoring parameter set to F1 score, determining that optimal performance is achieved with the inclusion of approximately 50 key features.
- Enhanced communication skills by actively participating in team discussions and presenting scientific articles related to the feature selection process.

Chief Technical Officer | Team BioSignus

Sep 2022 – Jun 2023

- Contributed to the comprehensive development of a respiratory pattern monitoring patch for Neonatal Intensive Care Unit (NICU) patients, encompassing both hardware and software components.
- Implemented a secondary thread in Python to effectively capture and display real-time data from the Arduino Serial Monitor as dynamic graphs.
- Demonstrated effective teamwork by collaborating closely with fellow team members, ensuring the timely progression of the project and meeting project milestones.

PROJECTS

Beats (React, TypeScript, Tailwind CSS)

- Developed a single-page application (SPA) named Beats for selling keyboards using React Router and React Query from TanStack.
- Utilized Context API for comprehensive state management, including authorization and cart functionalities, and integrated with a Supabase backend for data handling.
- Implemented shadcn/ui for rapid scalability and design aesthetics, along with lazy loading to enhance performance and user experience.

GameNation (React, TypeScript, Tailwind CSS)

- Developed a landing page for the game studio GameNation featuring smooth scrolling with animations.
- Implemented optimized image loading for enhanced user experience and an integrated contact form for direct email communication.
- Applied modern UI/UX design principles to create an engaging and user-friendly interface.

Technologies and Languages

- HTML, CSS, JavaScript (ES6), TypeScript, React, Bootstrap, Node.js, Python, Tailwind CSS
- Git, Github, C++, Unity, C#, Godot, Matlab, Soft Skills, Native Korean

EDUCATION

University of California, Irvine

Bachelor of Science in Biomedical Engineering, Sep 2019 ~ Aug 2023