

Taeyoon Kim

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EXPERIENCE

Full Stack Developer

Dec 2024 – Jun 2025

HugYourSkin (Contract)

Remote

- Built a full-featured web application from scratch for a high-traffic seasonal pop-up event.
- Developed dynamic UI components using React, Three.js, and TypeScript, enabling real-time 3D avatar customization and ID card.
- Automated backend data processing workflows using Firebase Functions and GCP, optimizing system performance and reducing server response time by 40%.
- Integrated OAuth 2.0 login with existing user platforms, improving onboarding speed by 35%.
- Developed a role-based admin dashboard that enabled designers and managers to easily manage user-generated ID cards and custom assets, streamlining content workflows and saving 40 hours of manual work per week.
- Worked cross-functionally with designers to design event-specific interfaces, increasing user interaction time and driving stronger engagement during the event.

V2X Radio / Simulation Engineer

Sep 2024 – Jul 2025

UC Davis EcoCAR, Connected and Autonomous Vehicle Team

Davis, CA

- Built real-time autonomous simulation systems using MATLAB, dSPACE, and RTMaps in an Agile research environment.
- Engineered UDP-based communication protocols for V2X data sharing, enabling seamless hardware/software integration.
- Collaborated cross-functionally with controls, perception, and software teams, ensuring accurate and efficient data flow between systems.

EDUCATION

B.S. in Computer Science, *University of California, Davis*

Jun 2024

Associate's in Computer Science, *De Anza College*

Aug 2019 - May 2022

Product Design, *ArtCenter College of Design*

Aug 2015 - May 2016

PROJECTS

Sharavel | *Next.js, Spring Boot, PostgreSQL*

Mar 2025 – Present

- Developed a scalable travel social platform RESTful APIs, serving content to a TypeScript frontend with real-time feedback for 500K+ users.
- Engineered data models and SQL queries for PostgreSQL to support high-volume user-generated content, optimizing query speed and supporting real-time data analytics.
- Integrated Google Maps API to allow users to build and visualize daily trip itineraries on an interactive map, improving spatial planning and user experience.
- Developed secure, scalable file storage architecture using AWS S3 with direct user uploads and optimized CDN integration for efficient delivery of trip and location media assets.

“F1-Tenth” Autonomous Race Car Team | *C++, Python, ROS2, SLAM, Jetson Nano*

Jan 2024 – Jun 2024

- Implemented key SLAM, path planning, and obstacle avoidance algorithms for a real-time robotic platform.
- Tuned real-time data interpretation and decision-making logic from sensor inputs (LiDAR), improving detection accuracy by 30% through algorithmic optimization.
- Led debugging efforts using simulation environments and real hardware to isolate software bottlenecks and improve performance.

SKILLS

Languages

C/C++, Java, TypeScript, JavaScript, Python

Frontend / Backend

React, Next.js, Three.js, Tailwindcss, Spring Boot, Firebase, Node.js

Tools

Git, GitHub, Google Cloud, AWS, dSPACE, RTMaps

Data Analysis

SQL, Excel (pivot, formulas), Python (pandas, matplotlib), MATLAB

Systems & Simulation

ROS2, RTMaps, dSPACE

Courses

Operating Systems, Modern Programming, Software Engineering, Machine Learning, AI Introduction, Computer Networks, Computer Security, Statistic Probability