

Kyumin Han

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EDUCATION

Pepperdine University

Malibu, CA

Bachelor of Science in Computer Science/Mathematics, Minor in Data Science; Student RA August 2022 – May 2026

Relevant Coursework: Data Structures, Operating Systems, Computer Organization, Discrete Mathematics, Machine Learning

Languages: Python, C++, C#, SQL, TypeScript, JavaScript, HTML, CSS

Libraries and Tools: Docker, Apache Airflow, React, Next.js, Node.js, SQL, Git/Github, Azure DevOps, PowerBI, Claude

EXPERIENCE

Pepperdine Application Development

Malibu, CA

Software Engineer Intern (Co-op)

August 2025 – May 2026

- Improved reliability of the eSign portal's REST API integrations by redesigning the service layer around typed success/failure response objects, replacing unhandled exceptions with structured error handling across the codebase
- Built and debugged asynchronous webhook handling to keep application state synchronized with third-party e-signature API, resolving data contract mismatches introduced by auto-generated API client updates after backend service changes.
- Integrated AI-assisted development (Claude, Gemini) into daily workflow for code generation, refactoring, and navigating legacy codebases, critically reviewing all AI output before merging to maintain production quality standards.

Pepperdine Keck Data Science Department

Malibu, CA

Applied AI Researcher

May 2025 – July 2025

- Applied generative AI and computer vision techniques to dynamically personalize video content and enhance the effectiveness of public health campaigns, achieving a ~35% increase in tested engagement metrics.
- Conducted user studies with 14 participants, analyzing behavioral and emotional response signals to evaluate model output quality and inform iterative improvements to the content generation pipeline.

Pepperdine Business Intelligence

Malibu, CA

Business Intelligence Intern

August 2024 – April 2025

- Designed and optimized SQL data pipelines and Power BI reports for university-wide compliance tracking with multi-table joins, aggregations, and filtered queries across enrollment datasets to surface KPIs for on-ground and online segments.

Pepperdine Information Technology

Malibu, CA

IT Student Analyst

September 2023 – August 2024

- Resolved 75+ technology issues and produced 15 instructional videos by providing hands-on technical support to 8,000+ staff and students, sharpening customer-facing communication skills in a high-volume service environment.

Qxrixs Systems

San Jose, CA

Software Engineer Intern

June 2023 – August 2023

- Grew AI image classification accuracy by 12% by processing and labeling 5,000+ images, applying rigorous dataset quality practices; Contributed to end-to-end product development within a 5-person cross-functional team

PROJECTS

Release Radar ☆ [Github](#)

Apache Airflow, Python, PostgreSQL, Docker

- Airflow ETL pipeline that polls the Spotify Web API for new artist releases to deliver scheduled email summaries; includes alerting with audit logging and a pytest covering DAG integrity and mocked integrations.

Spaces ☆ [Spaces](#)

Next.js, React, TypeScript

- Interactive 3D star map web application, integrating the astronomy-engine library to render accurate constellation data for a user-specified place and time

VolleyVision ☆ [VolleyVision](#)

Python, HTML, CSS, JavaScript, React, PostgreSQL, YOLO

- Full-stack web app built for a StatsPerform hackathon using custom-trained YOLO models and a computer vision pipeline for volleyball play recognition and performance analysis on recorded game footage

Artist Portfolio ☆ [Portfolio](#)

HTML, CSS, JavaScript, React

- Personalized portfolio web application showcasing multidisciplinary pieces of independent artist, [KYUMIN](#)

AI Music Generation GAN ☆ [Paper](#)

Python

- Generative adversarial network trained to create original music samples based on user-specified emotions.

CERTIFICATIONS

- Coursera: Meta Front-End Developer Professional Certificate** (Introduction to Front-End Development, Programming with JavaScript, Version Control, HTML and CSS in depth, React Basics, Advanced React, Principles of UX/UI Design)
- Astronomer Academy: Airflow 101 Learning Path** (Introduction to Orchestration and Airflow, Basics, Local Development Environment, UI, DAGS 101, DAGS Scheduling, XComs 101, Sensors, CLI, Connections and Variables, Debug DAGS)