

SUNGYOUNG MOON

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EXPERIENCE

AI Software Engineer

May 2026 – Present

SK hynix America — San Jose, CA

Develop secure internal AI applications using Python, local LLMs (Qwen, Llama, EXAONE, etc.) and cloud models (Gemini API) while protecting sensitive proprietary company information. Experience with AI-serving frameworks (Ollama, vLLM). Working knowledge of RAG architectures (chunking, retrieval, reranking, evaluation metrics). Familiarity with model fine-tuning (LoRA).

- Built Report AI to analyze multi-team weekly reports and generate concise summaries for the executive team.
- Developed Market Intelligence AI to track market changes, customers, competitors and industry developments, and their impact on SK hynix.
- Built Meeting AI to capture key discussions, decisions, action items, and follow-up tasks from business meetings.
- Improved model performance through AI evals, refined prompting, context definition, fact extraction, citation validation and grounding to ensure factual accuracy and eliminate hallucinations.
- Packaged and deployed applications through AI Hub, providing one-click installation, automated updates, and secure delivery to company laptops.

MES Software Engineer

July 2025 – April 2026

SK AX USA, Inc. — Glendale, KY

- Developed MES (Manufacturing Execution System) software features and enhancements to support large-scale electric vehicle battery production at SK Battery America and BlueOval SK.
- Ensured seamless integration with other manufacturing applications, such as WMS and ERP.
- Ensured stable 24/7 operations by debugging and troubleshooting manufacturing applications and issues.
- Collaborated with local site engineers, equipment teams, and internal and external IT partners to deliver customized MES solutions for business partner needs.
- Promoted from Associate Engineer position in Georgia.

OTA Engineer, Part-Time

June 2024 – June 2025

SGS North America — San Diego, CA

- Conducted Radio Frequency Over-the-Air (OTA) antenna testing for major clients including Google and Samsung on mobile products (CDMA, GSM, LTE, Wi-Fi, 5G), ensuring compliance with client and SGS quality system requirements.
- Performed debugging, test engineering, and system management for wireless devices using EMQUEST.
- Maintained industry standard test platforms, resolved issues, and ensured compliance with accreditation.
- Collaborated with clients and test equipment manufacturers to resolve testing issues and deliver high-quality service.

Web Developer

Sep 2019 - Jun 2021

Alpha Gamma Sigma, Santa Monica College

- Developed and maintained a student database to manage member information, volunteer records, and membership fees.
- Built and managed the official website and e-commerce platform, including an event calendar and digital newsletter library.

Administrative Support Specialist, Sergeant

Dec 2014 – Sep 2016

Republic of Korea Army

- Managed administrative tasks and records using military databases and software, ensuring data security and integrity.

Technical Consultant, Self-employed

Jan 2013 – Dec 2014

Kmong Inc.

- Advised startups on web strategies and platform development to drive business success.

Gaming / Anime Community Website, Founder

Oct 2010 – Dec 2014

- Led operations to grow this website to 100k+ users and 40M+ visits in three years. Organized anime expo events.

EDUCATION

B.S. in Computer Science (2025)

University of California, San Diego (UCSD)

SKILLS

AI & LLM: Qwen, Llama, EXAONE, Gemini API, Ollama, vLLM, RAG architectures, LoRA

Languages & Frameworks: Python, C#, SQL, Java, C++, C, FastAPI, .NET, WinForms, HTML, CSS

Tools and Technologies: Oracle Database, EMQuest, 5G FR1/FR2 OTA Testing, Regulatory Testing

INDEPENDENT PROJECTS

- Successorator (Planner APP): Java** (sungyoungmoon.com/project/successorator)
- Collaborated on an Android task management app using Java and Android Studio, implementing hierarchical task prioritization and personalized productivity features.
- Happy Planting Device: C++, Arduino C** (sungyoungmoon.com/project/happyplant)
- Developed the Happy Planting Device using C++ in an Arduino environment, integrating a moisture sensor and customizable MP3 player to enhance household plant care and user experience.

ACTIVITIES

ACM Engineer Student Community , <i>Member</i>	<i>2021 – 2025</i>
Project in a Box (Engineering Project Development Organization) , <i>Member</i>	<i>2024 – 2024</i>
Transfer Engineering Academic Mentorship Program (TEAM) , <i>Mentor</i>	<i>2023 - 2024</i>
UCSD Korean Traditional Drumming Team , <i>Vice President</i>	<i>2023 - 2025</i>