Jeewoo Lee

leejeewoo@berkeley.edu |www.github.com/jeewoo-lee| www.linkedin.com/in/leejeewoo

Education

University of California, Berkeley **August 2021 - May 2027**

- Bachelor's Degree in **Electrical Engineering & Computer Science** **GPA: 3.81/4.00**
- **Relevant Coursework:** Algorithms, Data Structures, Circuits, Vector Calculus, Linear Algebra, Software Engineering, Computer Architectures, Discrete Math & Probability Theory, Topics in ZK Proofs, Operating Systems
- Eta Kappa Nu (HKN) – EECS honor society.
- **Military leave (Republic of Korea Army): Fall 2023 – Spring 2025**

Experience

Suprema | Software Engineer **Feb 2025 - August 2025**

- Designed and deployed Solis on AWS EC2, Suprema's technical support chatbot, by implementing RAG pipeline and combining it with FastAPI backend.
- Evaluated multiple LLM deployment strategies, including APIs and on-premise hosting via Ollama and vLLM, to decide the most effective way to deliver the chatbot functionalities.
- Initiated the project for creating an AI Agent for Biostar X, Suprema's access control platform—a pioneering effort in the physical security industry.
- Implemented MCP server and client to actualize AI-driven decision logic for the physical access control (user, device, door management, etc).
- Planned and crafted an agentic architecture, including tool interactions and efficient context window management.

Elysia | SWE & Smart Contract Development Intern **May 2022 - July 2022**

- Planned and programmed "Decentralized Raffle" using Javascript, Typescript, and Solidity. Created front-end for users to interact with the smart contract using ethers.js and next.js.
- Participated in developments of "Elysia Market", market for decentralized housing bonds.
- Wrote an English version of the ELYFI white paper.
- Researched and proposed different solutions to implement NFT launchpad and marketplace in Elysia's collaboration with Neowiz.

Projects

PG Rainbow | Independent research

- Co-authored PG-Rainbow that integrates distributional reinforcement learning with proximal policy optimization; demonstrated improved performance on Atari-2600 benchmarks using the ALE simulator.

Avalanche Passport | Club project

- Built a platform for Avalanche that rewards on-chain activities. Utilized ERC1155 for NTTs and Avalanche Glacier API to query and display challenges. Created Avalanche Passport API with JavaScript and the smart contract using Solidity.

Technical Skills

- **Programming Languages**: Python, C, Java, Typescript
- **Frameworks:** FastAPI, PyTorch, Django, Next.js
- **Tools**: AWS VPC/EC2, NGINX, Linux, Docker, Git

Activities

Squad Leader at Republic of Korea Army

- Served as a squad leader, leading soldiers during the exercises and overseeing daily operational duties. Final rank: Sgt.

Blockchain at Berkeley

- Joined Blockchain at Berkeley as a developer consultant who commits to internal and external projects. Participated in ETH SF hackathon, winning $1500 from XMTP protocol.

Office of Chief Technology Officer at Berkeley

- Leading an initiative of Cal1 Card (student ID) digitalization with modernizing access control systems. Responsibilities include establishing connections with companies and persuading school leadership.