

1281 Berkeley Way  
Berkeley, CA  
94702  
United States

**Andrew (Howon) Kim**  
Software Engineer

(408) 628-2000  
howonkim@berkeley.edu  
linkedin.com/in/howonkim  
github.com/howon-kim

**University of California at Berkeley**, Bachelor, Data Science, Dec 2022

- Coursework: **Data, Inference, and Decisions**, Introduction to **Artificial Intelligence**, Introduction of **Database Systems**, **Software Engineering**, Principles & Techniques of Data Science, **Linear Programming** and Network Flows, Nonlinear and Discrete **Optimization**, Concepts of **Probability**, **Linear Algebra**, Data Structures and **Programming Methodology**.

*Experience*

**Vision Software Engineer at UltiumCells, Lordstown, OH**

August 2023 – Present

- Awarded 1st Prize in a Data Analysis Competition globally within LG Energy Solution.
- Analyzing terabytes of data to prevent major defects in the battery manufacturing process.
- Currently working on innovative HCI project for manufacturing process includes VR.
- Revalidating images using vision model that initially failed inspection to ensure the best quality.

**Vision Software Engineer at UltiumCells (LSP), Lordstown, OH**

April 2023 – August 2023

- Utilized Python and Spotfire to conduct thorough exploratory data analysis, enabling effective anomaly detection in vision machine learning projects.
- Developed custom deep learning algorithms utilizing large-scale data sets during manufacturing procedure to effectively identified defects in battery images.
- Integrated and optimized APIs of Keyence, Cognex, and Basler products, enhancing functionality and streamlining workflows.
- Leveraged programming skills in C++, MFC, WPF, and Python to deliver high-quality software solutions.

**HPC Engineer at Hewlett Packard Enterprise, Berkeley, CA**

January 2023 – February 2023

- High Performance Computing Engineer at National Energy Research Scientific Computing Center at Berkeley Lawrence Laboratory.

**Lead Software Engineer at ReviewMe, Seoul**

September 2020 – December 2021

- Developed a Machine Learning model to evaluate concentration level using facial components and brain waves.
- Developed an iOS application to collect facial and emotional data using MLKit, ARKit, Vision frameworks, and Firebase.
- Coordinated with external team on development of outsourced applications as product manager. Communicated effectively with different technology stacks.
- Obtained funds from the government for company's patent of the Machine Learning model and recommendation system.

**Software Engineer Internship at Samsung Electronics, Suwon**

June 2020 – August 2020

- Conducted research on machine learning projects for Android utilizing KoNLPy and Gensim libraries for lemmatizing/tokenizing OS notification data and categorizing them.
- Analyzed and optimized the legacy code of the Android framework.

- Experienced in Git, documentation systems, agile development methods, and effective communication with team members.
- Led weekly intern sprint planning sessions and daily stand-up meetings to manage milestones, prioritize tasks, and ensure timely completion of deliverables.

**Cofounder and CTO at AltoyGames, Seoul** (January 2020 – June 2020)

- Developed core components of game algorithm in C# and Unity 3D.

**Computer Science Tutor at University of California at Berkeley, CA** (January 2019 – April 2019)