

# Andrew (Howon) Kim

## Computer Vision Inspection Manager

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I have diverse experience, ranging from building a startup from its inception to scaling it up and working in prominent companies. In my first six months at LG and GM, I greatly achieved the first prize in a worldwide data analysis competition and also received Golden Awards for my contributions to smart factory initiatives. My commitment to excellence and innovation drives my success in delivering impactful results.

### Education

University of California, Berkeley | Data Science | Berkeley, CA 2022

- Graduated as Data Science: Applied Mathematics and Modeling with Computer Science and Data Science cores.

### Experience

Ultium Cells | Computer Vision Inspection Manager 10/2024 - Present

Company of GM and LG | Lordstown, OH

- Developed a machine learning model for electrode surface detection, integrated with an in-line inspection system.
- Built in C# using Windows App SDK (WinUI3) to enhance real-time quality control in manufacturing environments.

Ultium Cells | Computer Vision Engineer 04/2023 - 10/2024

Company of GM and LG | Lordstown, OH

- Awarded 1st Prize in a global data analysis competition, showcasing advanced skills in Python and data analysis.
- Experienced with machine learning frameworks, including PyTorch and TensorFlow, and proficient in using various vector databases.
- Strong understanding of advanced manufacturing systems, including PLC, SPC, and MES.
- Developed statistical models and deep learning algorithms for defect detection using terabytes of manufacturing data.

ReviewMe | ML Model Development and iOS Programming 09/2020 - 12/2021

eBook Review Platform Startup | Seoul, Korea

- Analyzed brain waves and facial components to develop a deep learning model that evaluates concentration levels, enhancing review systems through facial analysis.
- Proficient in Swift, SwiftUI, MLKit, ARKit, and Vision Framework for building advanced iOS applications.
- Contribute a patent for a Kindle-like review system and recipient of government AI funding.

Samsung Electronics | ML Model Development and Android Programming 06/2020 - 08/2020

Software Engineer Internship at Android Framework Department | Suwon, Korea

- Researched a machine learning project for automatic sorting of notifications based on situational importance.
- Analyzed and optimized Samsung frameworks using Kotlin and Java to improve performance and functionality.
- Skilled in Git, documentation, and agile development practices; led weekly sprint planning sessions for intern team.

AlttoyGames | Unity3D Game Engineer and Co-Founder 01/2020 - 06/2020

Game Studio Startup | Suwon, Korea

- Game development in Unity 3D and C#. Developed core components and algorithms from 2D to VR styled games.