4624 Rhode Island Drive Austintown, OH 44515 United States

Andrew Kim

Software Engineer

(408) 628-2000 career@howon.kim 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

Ultium Cells (GM), OH

Computer Vision Engineer

August 2023 - Present

Python, TensorFlow, Pytorch, C++, Spotfire

- Analyzed terabytes of data on Electrode Inspection to develop statistical models.
- Developed deep learning algorithms for vision-based defect detection from images.
- Utilized various optical techniques and camera systems including Keyence, Cognex, Basler.
- Awarded 1st Prize in a Global Data Analysis Competition by LG Energy Solution.
- Possess a systematic understanding of advanced manufacturing systems including PLC, SPC, and MES.

Ultium Cells (LSP), OH

Computer Vision Engineer

April 2023 – August 2023

C++, Python

- Utilized camera systems including Keyence, Cognex, Basler to create custom vision inspection software.
- Integrated and optimized APIs of camera systems, enhancing functionality and streamlining workflows.
- Leveraged programming skills in C++, MFC, WPF, and Python to deliver high-quality software solutions.
- · Developed deep learning algorithms utilizing large-scale data sets during manufacturing procedure to effectively identify defects in battery images.

Hewlett Packard Enterprise, CA

HPC Software Engineer

January 2023 - February 2023

HPC engineer at National Energy Research Scientific Computing Center at Berkeley Lawrence Laboratory.

ReviewMe, Korea

Chief Technology Officer

September 2020 – December 2021

Python, TensorFlow, Pytorch, Keras, Swift, SwiftUI

- Developed a custom deep learning model to evaluate human's concentration level using facial components and brain waves. Facial analysis software is developed by Swift using MLKit, ARKit, and Vision frameworks.
- Work as product manager with deeper understanding of various technology stacks work with external team.
- Granted government AI funds for its patent of book recommendation system and machine learning model.

Samsung Electronics, Korea Java, Kotlin, Python

Software Engineer Internship

June 2020 – August 2020

- Researched machine learning project optimizing notifications for efficient categorization and delivery.
- Analyzed and optimized the legacy code of the Android framework.
- Experienced in Git, documentation, agile development, 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.

AltoyGames, Korea

Cofounder / CTO

January 2020 - June 2020

C#, Unity 3D

- Developed core components of game algorithm in C# and Unity 3D.
- Developed first VR static FPS game to reduce eye strains and enhance gaming experience.