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**Andrew Kim**

Software Engineer

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**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*

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| 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.

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| 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.

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| ReviewMe, Korea | **Software Engineer Lead** | 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.

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| Samsung Electronics, Korea | **Software Engineer Internship** | June 2020 – August 2020 |

**Java, Kotlin, Python**

* 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.

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| AltoyGames, Korea | **Cofounder** | 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.