Hyun Ki Cho

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science   Philadelphia, PA
BSE in Computer and Information Science (Prospective)   Expected graduation May 2024

Relevant Coursework: Calculus II (Multivariable and Vector Calculus), Calculus III (Linear Algebra), Mathematical Foundations of Computer Science, Programming Languages and Techniques, Introduction to Scientific Computing, Data Structures and Algorithms, Automata/Computation/Complexity
Online Coursework: Machine Learning by Stanford University (Coursera)

Technical Skills: Java, Python (Pandas, Tensorflow, Pytorch, Matplotlib/Seaborn, Weights and Biases), Web Frontend (React/Svelte/Vue.js), React Native, Django, Heroku, Node.js, LaTeX, OCaml

EXPERIENCE

Oracle, *Oracle Cloud Software Engineering Intern*   (May 2022 - August 2022)
• Implemented a cancel-fast feature for instance groups in the deploy pipeline using Java
• Wrote a design document for the cancel-fast feature and incorporated feedback from senior developers
• Wrote unit tests and integration tests for the cancel-fast feature

InnoDataBridge(Korean IoT Startup), *IoT/AI Intern*   (August 2021 - October 2021)
• Modified, documented open source IoT solution named Mobius, meant for region-wide data collection regarding air quality
• Developed a dashboard for data input visualization using Vue.js, Vuetify, MySQL, MQTT, Node.js Express server
• Displayed image classification results, real-time and predicted air quality data using Electron, Vue.js, Buefy, Flask, and Tensorflow via desktop app for a demo at a conference for IoT startups

Republic of Korea Army(ROKA) Service, *Sergeant*   (February 2020 - August 2021)
• Gained leadership skills by leading and teaching new soldiers
• Practiced conflict resolution skills by defusing conflicts between soldiers

PROJECTS

Artz Philly Mobile, *Penn Spark*   (January 2022 - July 2022)
• Created a mobile app for dementia patients using React Native, Django, PostgreSQL, Heroku, Websockets, Threading
• Lead the team on the technical side, incorporating feedback from members on various design decisions
• Met with clients to discuss app functionality and receive feedback on app and published to Apple and Google stores

Kaggle Competition (SIIM-ISIC Melanoma Classification), *Placed Top 78th Percentile*   (Fall 2020)
• Participated in a Kaggle competition classifying benign and malignant Melanoma cells
• Final submission had an AUC score of 0.8442 (maximum score of 1.00)
• Utilized Pandas, Tensorflow, Keras machine learning libraries to augment, then classify image data with CNNs
• Utilized Kaggle's TPU hardware accelerators and created a data pipeline for TPU usage

Kaggle Competition (2020 Kaggle Machine Learning & Data Science Survey), *Bronze-rated*   (Winter 2021)
• Participated in a Kaggle competition about data storytelling and analysis
• Utilized Pandas, Matplotlib, Seaborn libraries to visualize data to illustrate the landscape of Korea's AI industry
• Final submission was rated bronze by Kaggle, based on upvotes and comments

ACTIVITIES/LEADERSHIP

Penn Spark, *Member, Blue Instructor(Future)*   (January 2022 - Present)
• Lead a team on the technical aspect of creating a mobile app for dementia patients
• Developing a curriculum to teach novice developers about web development

UPGRADE Game Development Club, *Marketing and Recruitment Chair 2019*   (August 2018 - December 2019)
• Co-lead a team developing a game named Happy Way Home, wrote the story for a game named Aeiaton
• Sent scheduling emails, and planned social events for the club, at times cooperating with the UPenn eSports Association