Hyun Ki Cho

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science   Philadelphia, PA
BAS in Computer and Information Science / Minor in Engineering Entrepreneurship   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, Web 3 Security, Data Structures and Algorithms, Automata/Computation/Complexity, Introduction to Computer Architecture, Engineering Entrepreneurship I, Introduction to Algorithms, Human Computer Interaction, Operating Systems Design and Implementation
Online Coursework: Machine Learning by Stanford University (Coursera)

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

EXPERIENCE

Amazon AWS, *Software Engineering Intern*   (May 2023 - Present)
• Improving internal customer experience for 1100+ service teams by implementing a full-stack onboarding website using React, AWS Lambda, Amazon DynamoDB, and GraphQL

Oracle, *Oracle Cloud Software Engineering Intern*   (May 2022 - August 2022)
• Implemented a cancel-fast feature for instance groups in the deploy pipeline using Java, significantly improving customer experience for 5000+ companies on release
• Wrote unit tests, and integration tests for the cancel-fast feature with a code coverage of ~100%

InnoDataBridge(Korean IoT Startup), *IoT/AI Intern*   (August 2021 - October 2021)
• 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 30+ IoT startups

Republic of Korea Army(ROKA) Service, *Sergeant, Chaplain*   (February 2020 - August 2021)
• Swept for landmines in the DMZ(Demilitarized Zone between South and North Korea)

PROJECTS/AWARDS

Artz Philly Mobile, *Penn Spark*   (January 2022 - July 2022)
• Contributed 1000+ lines of code to a mobile app for dementia patients using React Native, Django, PostgreSQL, Heroku, Websockets, Threading, meant to be used by 50+ users.
• Lead a team of 4 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 using Pandas, Tensorflow, Keras
• Sped up processing by 62% through Kaggle's TPU hardware accelerators and created a data pipeline for TPU usage

Secure3 Audit Contest (Smart Contract Security Auditing), *3rd Place(Awarded 52 APT)*   (Winter 2022)
• Analyzed smart contracts for XCarnival, found both critical and minor vulnerabilities, and proposed code fixes

ACTIVITIES/LEADERSHIP

Penn Spark, *Blue Division Co-VP,*   (January 2022 - Present)
• Currently revamping web development teaching curriculum and member selection processes

Penn Climate Ventures, *Member of Fellowships Team*   (Fall 2022 - Present)
• Working on sourcing consulting projects from climate startups and orgs
• Organized a 12-person company trek to meet and discuss with 3 climate startups in New York

Korean Christians At Penn, *Co-Leader*   (Fall 2022 - Present)
• Co-led and produced material for weekly Bible studies, while organizing social meetings to create community