# 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, Web 3 Security, Data Structures and Algorithms, Automata/Computation/Complexity, Introduction to Computer Architecture
*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

## 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, 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%
• Wrote a design document for the cancel-fast feature and incorporated feedback from senior developers

**InnoDataBridge(Korean IoT Startup),** *IoT/AI Intern* (August 2021 - October 2021)
• Modified, documented open source IoT solution titled Mobius, meant for region-wide air quality data collection from 1000+ nodes
• 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)
• Gained leadership and conflict resolution skills by leading and teaching 20+ new soldiers
• Prepared and held Sunday service for ~40 soldiers weekly and mentored a soldier for future chaplain duties

## PROJECTS

**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
• Final submission had an AUC score of 0.8442 (maximum score of 1.00), a 43% increase from my baseline score
• Sped up processing by 62% through 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)
• Analyzed trends in 3000+ users in a Kaggle competition about data storytelling with Pandas, Matplotlib, Seaborn

## ACTIVITIES/LEADERSHIP

**Penn Spark,** *Member, Blue Instructor* (January 2022 - Present)
• Lead a team on the technical aspect of creating a mobile app for dementia patients, meant to be used by about 50 users
• Developing a curriculum to teach 20+ novice developers about web development

**Penn Climate Ventures,** *Member of Fellowships Team* (Fall 2022 - Present)
• Will be working on securing fellowships with climate startups and organizations for club events

**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