

Hyunwoo Kim

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EDUCATION

PENN STATE UNIVERSITY

Double Major in :

BS IN DATA SCIENCE

College of Engineering

BS IN MATHEMATICS

Elberly College of Science

Minor in :

Computer Engineering

May 2021 | State College, PA

LINKS

Website:// hyun.app

Github:// [hyunwoo312](https://github.com/hyunwoo312)

LinkedIn:// [hyunwoo312](https://www.linkedin.com/in/hyunwoo312)

COURSEWORK

UNDERGRADUATE

Deep Learning with CNNs

Coding Theory

Computer Org & Design

Concurrent Scientific Programming

Data Privacy and Security

Machine Learning & Algorithmic AI

SKILLS

PROGRAMMING

Proficient:

Python • Go • SQL

Knowledgeable:

C • JS/React • Assembly •

Shell • \LaTeX

OTHERS

Tools:

Git • Docker • AWS

Applied Skills:

Artificial Intelligence •

Deep Learning with CNN & GAN •

Full-Stack Development

RESEARCH

AEROSPACE MULTI-PHYSICAL AND UNCONVENTIONAL SYSTEMS LAB | UNDERGRADUATE RESEARCHER

Sep 2019 - Present | University Park, PA

I am working on the topic of field inversion and machine learning and their effects on flight systems. I am currently modeling a one-dimensional heat flux equation of radiation in MLP with Adaboost.

EXPERIENCE

NITTANY AI ALLIANCE | AI ASSOCIATE - DATA SCIENTIST

Oct 2019 - Present | University Park, PA

- Working with different departments at Penn State in implementing automated tasking
- Currently working on a project that uses NLP and other machine learning algorithms to parse and understand data on pdf files of high school transcripts for 100,000 potential applicants to Penn State.

AAIT | IT SUPPORT SPECIALIST INTERN

June 2019 - Aug 2019 | University Park, PA

- Responsible for setting up computers to be imaged and bound to the EAD.
- Responsible for troubleshooting hardware and managing the hardware parts.

PROJECTS

CHESSAI β

Currently working on creating a Chess WebApp where one can play against computers of different levels trained through deep reinforcement learning. JS/React for front-end, Go for back-end/data-pipelining, and Python for ML&AI.

ANIMEFACE GAN

Created a rough GAN model that generates images of anime characters. The model was built with Keras, and the data processing for anime faces has been done with OpenCV2 with lbpCascade. The model will be public on Kaggle once the model output stabilizes.

HACKPSU 18

Incorporated AWS machine learning to output one's likelihood of getting into a certain college based on SAT/GPA.

INVOLVEMENT

PSU ESPORTS CLUB | THE EXECUTIVE BOARD TREASURER

Apr 2019 - Present

NITTANY DATA LAB | DATACAMP PROJECTS

ACM | COMPETITIVE PROGRAMMING & ICPC

IEEE & PSU LOL CLUB