

# Minseo Kim

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## EDUCATION

### The Pennsylvania State University

Bachelor of Science in Computational Data Sciences, Minor in Mathematics, GPA: 3.89/4.0

University Park, PA

Expected May 2025

- The President Walker Award, 2022: Scholastic award for academic excellence

## WORK EXPERIENCE

### CentralReach

Generative AI Engineer Intern

State College, PA (Remote)

May 2024 – August 2024

- Developed and optimized an HTML text extraction tool using JavaScript and Node.js, reducing the average time per document from 90 seconds to 0.9 seconds, resulting in a 99% efficiency gain
- Integrated a generative AI API and AWS, and hosted it on the Shakudo cloud service (microservices) to support production in a high-value software project
- Managed the database and ensured quality assurance by generating comparison tables using SQL, directly working with the head of the AI team and fellow engineers in an agile setting

### Penn State Nittany AI Alliance

Data Science Intern

State College, PA

January 2024 – April 2024

- Improved the ML model's performance and achieved an R-squared value of 0.86 using the XGBoost and regression, through data modification and hyperparameter tuning
- Developed a machine learning model to predict ticket sales for Penn State Bryce Jordan Center, using Python and Scikit-learn, leveraging NumPy and Pandas for data analytics, resulting in a successful presentation and recognition

### Navy Federal Credit Union

Data Visualization Analyst Intern

State College, PA (Remote)

May 2023 – August 2023

- Created an interactive data visualization report on Fintech Usage and a user-friendly menu page, utilizing Microsoft Power BI and Azure Databricks
- Conducted thorough data analysis, aiming to comprehend the dependencies of tables in a relational database and choose appropriate data visualizations for the report

## PROJECTS

### Statistical Learning Projects ([GitHub Link](#))

August 2023 – December 2023

- Developed a house price prediction model using XGBoost and regression in R and ranked in the top 14% of the class
- Implemented an unsupervised learning model involving clustering and PCA techniques to predict the Reddit topic from user comments

### Course Enrollment Scheduler Project ([Github Link](#))

August 2023 – December 2023

- Developed a Java-based course enrollment scheduler application, using object-oriented programming and an SQL database

### LionFoodTracker: An app that analyzes food waste at universities ([GitHub Link](#))

Team Leader

January 2023 – April 2023

- Led a team to achieve Top 20 ranking in the idea phase of the Penn State Nittany AI Challenge, receiving a \$500 prize, and earned the Dave Hall Award in the Bardusch Family IdeaMakers Challenge

## INVOLVEMENT & LEADERSHIP

### Penn State Residence Life

Resident Assistant

June 2022 – Present

- Received LLC (Living Learning Community) Engagement Award for demonstrating exceptional leadership by actively engaging with IST residents and creating an inclusive and safe community
- Oversee 67 students, host floor meetings, and manage conflicts effectively through clear communication with residents

### Penn State College of IST and Penn State College of Engineering

Undergraduate Teaching Assistant

August 2022 – December 2023

- Mentored 60 students in Python and Java Programming classes by holding weekly review sessions and office hours twice a week while assisting professors and graduate teaching assistants

### Lightbulb Junior Enterprise

Consultant, Director of Marketing

September 2021 – May 2023

- Collaborated with fellow members to organize general body meetings, oversee logistics, and plan marketing strategies

## SKILLS

**Languages and Frameworks:** Python, Java, R, SQL, JavaScript, Express.js, Korean

**Tools:** Node.js, NumPy, Pandas, Scikit-learn, Power BI, Azure Databricks, Figma, AWS, Shakudo