Minseo Kim

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EDUCATION

The Pennsylvania State University *University Park, PA*
Bachelor of Science in Computational Data Sciences, Minor in Mathematics, GPA: 3.89/4.0 *Expected May 2025*
- The President Walker Award, 2022: Scholastic award for academic excellence

WORK EXPERIENCE

CentralReach *State College, PA (Remote)*
Generative AI Engineer Intern *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 Shakuduo 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 *State College, PA*
Data Science Intern *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 *State College, PA (Remote)*
Data Visualization Analyst Intern *May 2023 – August 2023*
- Created an interactive data visualization report on FinteNch 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 – August 2024*
- Received LLC (Living Learning Community) Engagement Award for demonstrating exceptional leadership by actively engaging with IST residents and creating an inclusive and safe community
- Oversaw 67 students, hosted floor meetings, and managed 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, Hadoop