JASON CHONGKYUNG KIM

📞 267-453-6620 ✉ ckim5@swarthmore.edu 💼 LinkedIn ⊕ Github ★ Personal Website

Education

University of Pennsylvania — **August 2022 -**
Master of Science in Engineering (MSE) in Data Science

Swarthmore College — **Aug. 2018 – May 2022**
Bachelor of Arts in Computer Science and Mathematics

Technical Skills

Languages: Python, SQL, R, C, C++, HTML/CSS/JavaScript, STATA
Technologies: Docker, Kubernetes, Redis, AWS, Grafana, Apache Airflow, Jupyter Notebook, PostgreSQL, Domo, Plotly

Experience

Telnyx — **June 2021 – August 2021**
Software Engineer Intern — **Chicago, IL**
- Built a new **ETL pipeline** for primary customer data warehouse and developed **Apache Airflow DAG**s using **Python** and **SQL**.
- Made the code for creating and configuring new DAGs **scalabe** by using **Python decorators**.
- Wrote unit tests for DAGs using **Python** to prevent data corruption and SQL injection attacks.
- Deployed new commits to development and production and oversaw the deploy process by assessing **Apache Airflow** UI, **Grafana**, and **Kubernetes**.

Hucu.ai — **April 2021 – May 2021**
Data Science Intern — **Chicago, IL**
- Created an analysis report template using **Python** and Jira's **REST API** to assess workflow of engineers at Hucu.
- Built a statistical metric to study engineers' workflow speed and efficiency and created interactive graphs using **Plotly**.
- Brainstormed with CEO and program managers to find best engineering and workflow practices.

Swarthmore College Statistics Department — **May 2020 – May 2021**
Research Assistant — **Swarthmore, PA**
- Designed a **logistic regression model** and built **parallelized algorithm** in **R** to estimate the survival probability of whales in the dataset and to discern **statistically significant variables** that affect a whale's survival rate.
- Reported data findings to the Swarthmore math department of 10+ professors and 30+ students. Paper to be finalized and published by October 2021.

LotusFlare — **August 2020 – November 2020**
Data Science Intern — **Sunnyvale, CA**
- Used **Python** and Jira's **REST API** to find trends in the Jira dataset and automate data analysis reports for the program managers.
- Developed an automated email notification system that alerts engineers about due Jira tickets that improved ticket completion rate (before due date) from 63% to 91%.
- Coordinated with product managers and data scientists to understand existing management behavior, suggest best practices, and highlight potential risks.
- Reported data analysis findings in bi-weekly meetings to 30+ engineers and product managers.

Swarthmore College Statistics Department — **August 2021 – Present**
Statistics Teaching Assistant — **Swarthmore, PA**
- Held office hours for all statistics courses (Statistical Methods I/II, Probability, Mathematical Statistics I/II, Data Visualizations, and more) at Swarthmore College

Projects

Average face of Euro 2020 (Github ⊕) | *Python, facer* — **June 2021**
- Built a web scraper using **Python** and **Beautiful Soup** to extract 618 player profile pictures from the official Euro 2020 website Official Euro 2020 Website ↗.
- Used **facer** package to calculate the average face of all 618 players' faces and the average face of all 24 teams.

Personalized Spotify Report (Github ⊕) | *Python* — **June 2021**
- Created a personalized Spotify listening data report using **Python** and Spotify's Web **API**.
- Visualized the popularity of the personal Top 50 artists and songs alongside most represented artists in the Top 50 songs.

Coursework

Computer Science: Algorithms, Data Structures and Algorithms, Artificial Intelligence, Discrete Mathematics, Theory of Computation, Intro to Computer Systems; **Math** : Linear Algebra - Honors, Honors Several Variable Calculus, Probability, Differential Equations, Statistical Methods II, Mathematical Statistics I, Mathematical Statistics II, Number Theory, Real Analysis