Chongkyung Jason Kim

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Education

Swarthmore College
Computer Science and Statistics   *Aug. 2018 – May 2022*

- **GPA**: 3.61/4.0
- **Major GPA**: 3.91/4.0
- **Relevant Coursework**: Data Structures and Algorithms, Software Engineering, Artificial Intelligence, Discrete Mathematics, Probability, Linear Algebra, Multivariable Calculus
- **Skills**: Python, Jupyter Notebook, C/C++, SQL, HTML/CSS/Javascript, AWS, Postgresql, Redis, R, Stata

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Coding Projects

Manchester United Diagnosis: What is the problem? (ongoing) | *Python, Jupyter Notebook, Kaggle. Plotly*
- Analysis of Manchester United data in order to diagnose the club's downfall since 2013.
- Extract data from Wikipedia using **pandas** to study Manchester United's average league position from 2009.
- Visualize FIFA ratings across Premier League's top teams over the past five years using **Plotly**

Experience

Software Engineering Intern   Feb 2021 – Present
FinePrint Data   *Philadelphia, Pennsylvania*

- Refactor and debug codebase for frontend and backend on top of python scripts
- Add new features to a web scraping/data mining software

Data Analyst   Jan 2021 – Present
Swarthmore College Basketball Team   *Swarthmore, Pennsylvania*

- Analyze Swarthmore Division III basketball team's performances over the past five years to devise winning patterns and strategies with the coaches.
- Visualize and present per-round (quarterly) trends using **Plotly**

Machine Learning Research Assistant   May 2020 – Present
Swarthmore, Pennsylvania   *Swarthmore College Statistics Department (Steve Wang Lab)*

- Studied and parsed the North Atlantic Right Whale Consortium (NARWC) dataset pertaining to whale sightings to study individual whales' survival rates.
- Built parallelized algorithm in **R** using our logistic model to estimate the survival probability of every whale in the dataset.
- Design a **logistic regression** model to discern significant variables that meaningfully affect a whale's survival rate.
- Cleaned dataset of 70,000+ entries, manually going through observations to remedy errors and report the issues to NARWC.
- Reported data findings to the Swarthmore math department of 10+ professors and 30+ students. Paper to be finalized and published by October 2020.

Data Science Intern   August – Nov 2020
LotusFlare   *Sunnyvale, California*

- Developed **Python** script using Jira's **REST API** to automate Jira issues' due date notification emails to LotusFlare employees.
- Build algorithms with **Python** and **R**, using **pandas** on **Jupyter Notebook** and working with Jira's **REST API**, to analyze Jira time-series data to improve product delivery efficiencies.
- Coordinate with product managers and the data science team to understand existing management behavior, to suggest best practices, and to highlight potential risks.
- Report data analysis results in bi-weekly meetings to 30+ engineers and product managers, visualizing the results with **Plotly**.

Economics Research Intern   May – August 2019
Swarthmore College   *Swarthmore, Pennsylvania*

- Debugged Stata codebase that analyzes US banks dataset of millions of observations and hundreds of variables