

# 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
- **Computer Science courses:** Data Structures and Algorithms, Software Engineering, Artificial Intelligence, Discrete Mathematics
- **Math Courses:** Probability, Linear Algebra (Honors), Multivariable Calculus (Honors), Mathematical Statistics 1, Statistical Methods 2
- **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? | 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**

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## Experience

### Software Engineering Intern

FinePrint Data

Feb 2021 – Present

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

Swarthmore College Basketball Team

Jan 2021 – Present

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

Swarthmore College Statistics Department

May 2020 – Present

Swarthmore, Pennsylvania

- Studied and parsed the North Atlantic Right Whale Consortium (NARWC) dataset pertaining to whale sightings to study individual whales' survival rates.
- Design a **logistic regression model** and built **parallelized algorithm** in **R** to estimate the survival probability of every whale in the dataset and 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

LotusFlare

August – Nov 2020

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

Swarthmore College

May – August 2019

Swarthmore, Pennsylvania

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