Jason Chongkyung Kim

✉ ckim5@swarthmore.edu | 🔗 Personal Website | 🐙 Github | 💼 Linkedin |
📞 267-453-6620

Education

Swarthmore College

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

- GPA: 3.61/4.0
- Major GPA: 3.91/4.0
- Relvent Coursework: Data Structures and Algorithms, Software Engineering, Artificial Intelligence, Discrete Mathematics, Probability, Linear Algebra, Multivariable Calculus

---

Coding Projects

Twitter Sentiment Analysis Engine | *Python*

- A **natural language processing** project that uses **TextBlob** for detecting **polarity**, on top of pulling **Twitter API** using **tweepy**.
- Set up data pipeline to retrieve data from Twitter
- Developed a Twitter Sentiment Analysis Engine that studies tweets' polarity based on keywords

---

Experience

Statistics Reserach Assistant May 2020 – Present

Swarthmore College Statistics Department *Swarthmore, Pennsylvania*

- 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.
- Ran statistical models and analyzed relevant papers in order 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
- Paper to be finalized and published by October 2020

Data Science Intern Feb – Mar 2020

LotusFlare *Sunnyvale, California*

- Developed **Python** script using Jira's **REST API** to automate Jira issues' due date notification emails to product managers and engineers at LotusFlare
- Build algorithms with **Python** and **R**, using **pandas** on **Jupyter Notebook** and working with Jira's **REST API**s, 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, visualizing the results with **Plotly** package and **ggplot2**

Skills

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS, R
Human Languages: Korean, Japanese
Developer Tools: Jupyter Notebooks, VS Code, Atom, APIs