

# Brian Hee Soo Kim

brian.hees.kim@gmail.com | brianhee.github.io

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## EXPERIENCE

**Software Engineer | ClassLink** Clifton, NJ

Jun. 2022 – Present

- Maintained and optimized data ingestion and storage pipelines responsible for processing and persisting activity data from 20 million active users into AWS Aurora and Redis, which would later then be used for presenting insights and usage metrics on user behavior.
- Alleviated API call density by 50% by consolidating code-related redundancies and optimizing SQL queries involved in data retrieval processes, which eliminated connection pool saturation incidents across the platform by 100%.
- Designed and implemented site-wide data filtering logic and UI to enhance data quality and relevance across the site, leveraging frameworks such as Express.js and Angular, resulting in a more convenient and streamlined user experience.
- Engineered an artificial data generation system that mimics probability-based user behaviors and system interactions in production to populate the beta environment, ensuring a realistic testing ecosystem for comprehensive test coverage.
- Initiated and fostered cross-functional collaboration with marketing and engagement teams to garner more intimate insights into user experience and align product development efforts with market demands.

**Research Associate | Yale School of Medicine** New Haven, CT

Aug 2019 – Sep. 2021

- Conducted and published data-driven analytics of protein localization in *C. elegans* utilizing libraries such as NumPy and Pandas for data cleaning, transformation, and statistical analyses.

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## EDUCATION

**Yale University** New Haven, CT

Molecular Biology (B.S. Intensive)

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## PROJECTS

**Centiment** (centiment.fyi) | *React, Next.js, Spring Boot, NLTK, PostgreSQL*

Sep. 2022 – Present

- Full stack web application that scrapes and analyzes stock market sentiment from *Reddit* by utilizing NLTK and FinBERT (financial Natural Language Processing model), and presents a user-friendly interface to visualize sentiment trends over time, providing users with actionable insights on potential financial investments.

**Courseshare** (courseshareapp.com) | *React, Node.js, MongoDB*

Mar. 2022 – Apr. 2022

- Full stack web application that provides an intuitive user interface for the creation and distribution of online courses and educational material.

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## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, SQL, Java, Ruby

**Frameworks/Libraries:** React, Node.js, Angular, RxJS, Next.js, Apollo GraphQL, Spring Boot, Selenium, BeautifulSoup, Jest

**Databases:** MySQL, PostgreSQL, Redis, MongoDB (NoSQL)

**Tools:** AWS, Grafana, Maven