

# KAISEN YE

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**LinkedIn:** [linkedin.com/in/kaisenye/](https://www.linkedin.com/in/kaisenye/) | **GitHub:** [github.com/kaisenye](https://github.com/kaisenye) | **Personal Website:** [kaisenye.github.io](https://kaisenye.github.io)

## SUMMARY

- **Objective:** Seeking Software Developer/Engineer summer intern position in Summer 2022
- **Languages:** Proficient: Python, Java; Prior Experience: C++, C#, CSS3, HTML5, JavaScript
- **Frameworks:** Angular, Bootstrap, Docker, Express, Flutter, React, Spring/Spring Boot, Node.js
- **Databases:** AWS, Firebase, Redis, MongoDB, MySQL, NoSQL
- **Developer Tools:** Android Studio, Git, GitHub, Jupyter, Visual Studio, Eclipse
- **UI/UX Skills:** Adobe (Photoshop, InDesign, Illustrator, XD)

## EDUCATION

**Indiana University at Bloomington** | Bloomington, IN

*Expected May 2023*

*Bachelor of Science* | **Major:** Information Systems

**GPA: 3.74**

*Bachelor of Science* | **Major:** Applied Mathematics

- **Academic Honors:** Executive Dean's List, F&D Spencer Scholarship
- **Relevant Courseworks:** Business Application Development, Data Structures and Algorithms, Database Design and Management, Digital Solutions with AI, Java Programming, Principles of Software Design

## WORK EXPERIENCE

**SOSV Venture Capital**

**New York, NY**

*Data Analyst Intern*

*May 2021 – July 2021*

- Initiated a data update strategy using **Webhook** and **urllib2** to sync startups' data (financial reports, CMGR, CAC, customers volume/active users, growth profile, etc.) with ClickUp lists, **saved more than 90% of data transfer time**
- Customized KPI dashboards on ClickUp to track onboarding progress and to improve overall efficiency of data analysis

**Freestone Partners, LLC**

**Houston, TX**

*Summer Analyst*

*May 2020 – August 2020*

- Performed industry and company research using **Python** and **Scrapy** to search companies with \$10 – 50 million in annual revenue and a potential gross IRR of 20 – 30% in the industry of manufacturing and industrial services
- Conducted financial analysis with **pyfolio** and **QuantLib** for acquiring a \$30 million revenue company (Warfab LLC)

## PROJECTS

**Discrete Differential Geometry Research Lab** | C++, Geometry Central, Polyscope

*December 2021 – Present*

- Explored differential geometry in discrete context in topics including curves and surfaces, connections and parallel transport, exterior calculus, Hodge decomposition, and conformal mapping
- Implemented algorithms to process a variety of discretizing theories using **C++** with **Geometry Central** for the back-end processing, **Polyscope** for the front-end rendering, and **GoogleTest** for unit testing

**MyLibrary Web App** | Bootstrap, Node.js, Express, MongoDB

*December 2021 – Present*

- Designed a pipeline with **Node.js**, **Express**, and **MongoDB** to process and store information of library collections including books, periodicals, newspapers, manuscripts, films, and documents
- Built a responsive and user-friendly website via **Bootstrap**, and customized widgets and icons using **Illustrator**

**Real-time Tweet App** | Android Studio, Flutter, Dart, Firebase

*October 2021 – January 2022*

- Developed a tweet **Android** mobile app using **Flutter** and **Dart** that allow users to tweet and follow users in real-time
- Leveraged **Firebase** and **NoSQL** to store, secure, process, and analyze users' data, including posts and authentication
- Customized front-end layout including logo, widgets, backgrounds, and color schemes leveraging **Adobe Suite**

**Personal Web Page** | HTML, CSS, JavaScript

*November 2021 – December 2021*

- Built a personal web page leveraging **HTML** to present professional experiences and project specifics
- Tailored website structure using **CSS** and **JavaScript** to make the overall layout more user-friendly

**Algorithmic Trading Robot** | Alpaca API, Python, Pandas, Plotly

*September 2021 – November 2021*

- Programmed in **Python** to automate trading activities and market data streaming to test various trading strategies, including technical strategies based on indicators like 14-day RSI, 14-day ADX, 3-day SMA, 3-day EMA, etc.
- Processed and visualized diagnosis asset pricing data from **Alpaca** using **Plotly**, driving a cross-functional data review