

KAISEN YE

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

SUMMARY

- **Objective:** Seeking Software Developer/Engineer summer intern position in Summer 2022
- **Languages:** Proficient: Python, C#; Prior Experience: C++, Java, JavaScript, HTML/CSS
- **Frameworks:** Angular, Bootstrap, Express, Flutter, React, Spring/Spring Boot, Node.js
- **Databases:** AWS, Firebase, 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