

KAISEN YE

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SUMMARY

- **Objective:** Seeking Software Developer/Engineer summer intern position
- **Languages:** C++, C#, Python, Java, CSS3, HTML5, JavaScript, LaTeX, Zsh
- **Frameworks:** Angular, Bootstrap, Docker, Flutter, React, React Native, 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
Bachelor of Science | **Major:** Applied Mathematics
- **Academic Honors:** Executive Dean's List, F&D Spencer Scholarship
 - **Relevant Coursework:** Business Application Development, Data Structures and Algorithms, Data Management, Digital Solutions with AI, Java Programming, Principles of Software Design

WORK EXPERIENCE

- Indiana University, Department of Mathematics** **Bloomington, IN**
Undergraduate Instructor *August 2021 – Present*
- Support students via email communication two days a week by simplifying concepts in the subject of Finite Math
 - Arrange specialized one-on-one and small group sessions for students that need customized instruction
- 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 AND RESEARCH

- Log (iu) Discrete Differential Geometry** | C++, Geometry Central, Polyscope *December 2021 – Present*
- Explore differential geometry in discrete context in topics include curves and surfaces, connections and parallel transport, exterior calculus, Hodge decomposition, and conformal mapping
 - Implement 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
- 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
 - Designed 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