KAISEN YE

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EDUCATION

Indiana University at Bloomington   *Expected May 2023*
Bachelor of Science in Business | **Major:** Information Systems   **GPA: 3.70 / 4.00**
Bachelor of Science | **Major:** Applied Mathematics

- **Academic Honors:** Executive Dean's List, F&D Spencer Scholarship
- **Relevant Courses:** 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 math concepts for maximum understanding
- Arrange specialized one-on-one and small group sessions for students that need customized instruction

Envision Capital Management Group   **Bloomington, IN**
Sustainable Investing Analyst   *February 2021 – October 2021*

- Collaborated with fund managers to deliver weekly investment pitch based on in-depth research on markets
- Strengthened fundamental and technical analytical skillsets by participating in weekly analyst training sessions

SOSV Venture Capital   **New York, NY**
Data Analyst Intern   *May 2021 – July 2021*

- Designed a data update strategy using **Python** *pyclickup* to connect startups' raw data (financial reports, CMGR, CAC, customers volume/active users, growth profile, etc.) and ClickUp platform
- Customized applications on ClickUp to track onboarding progress and to improve overall efficiency of data tracking

Freestone Partners, LLC   **Houston, TX**
Private Equity Summer Analyst   *May 2020 – August 2020*

- Performed industry and company research to seek investment in companies with $10 – 50 million in annual revenue and potential of substantial growth in the industry of manufacturing, distribution, and industrial services
- Supported acquisition development for a $30 million revenue company (Warfab LLC) in industrial maintenance

PROJECTS AND RESEARCH

Log (iu) Discrete Differential Geometry | C++   *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 rigorous algorithms to process a variety of discretizing theories using **C++** and relevant graphic libraries

Personal Web Page | HTML, CSS, JavaScript   *November 2021 – December 2021*

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

Real-time Tweet App | Android Studio, Flutter, Dart, Firebase   *October 2021 – December 2021*

- Developed a tweet **Android** mobile app that allow users to tweet, monitor others' tweet, and follow users in real-time
- Leveraged **Firebase** to design a backend infrastructure to store, secure, process, and analyze users' data
- Customized user interfaces including logo, widgets, backgrounds, and color schemes utilizing **Adobe Creative Suite**

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
- Processed and visualized diagnosis asset pricing data with **Plotly**, driving a cross-functional data review
- Designed trading strategies to establish and hedge positions in real-time, buying and selling ETFs and stocks

TECHNICAL SKILLS

Computer Languages: C++, CSS, HTML5, Python, R, SQL, MySQL, Java, JavaScript
Developer Tools: Android Studio, Git, GitHub, Visual Studio Code, PyCharm, RStudio, Eclipse
UI/UX Skills: Adobe (Photoshop, InDesign, Illustrator, XD)