KAISEN YE

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SUMMARY

- **Objective:** Seeking Software Developer/Engineer position in 2023
- Languages: Proficient: Python, C++, SQL; Prior Experience: C#, Java, JavaScript, HTML/CSS
- Frameworks: Angular, Bootstrap, Flutter, Kubernetes, React, Node.js, TensorFlow
- Databases: AWS, BigQuery, Firebase, MongoDB, MySQL
- Developer Tools: Android Studio, Git, GitHub, Jupyter, PyCharm, Visual Studio, Eclipse

EDUCATION

Indiana University at Bloomington | Bloomington, IN

Expected May 2023

Bachelor of Science | Major: Applied Mathematics

Bachelor of Science in Business | Major: Information Systems

- Academic Honors: Executive Dean's List, F&D Spencer Scholarship
- Relevant Coursework: Data Structures and Algorithms, Database Management, Principles of Software Design

WORK EXPERIENCE

PayPal Los Angeles, CA

Software Engineer Intern

May 2022 – August 2022

- Performed thorough Exploratory Data Analysis using **BigQuery**, **pandas**, **NumPy**, and **Plotly** on **over 36 million records of online shopping event data** to delve into how end users interact with E-commerce websites
- Built and trained machine learning models with **TensorFlow** and **Google AutoML** to make predictions on buying behaviors and to identify potential customers, resulting in **over 98% average Precision-Recall scores on testing sets**
- Deployed a machine learning pipeline using **Kubernetes** to enable automatic management and scaling of the models
- Implemented CircleCI validation along with mypy and pylint for automated CI/CD workflow in 10+ repositories

SOSV Venture Capital

New York, NY

Data Analyst Intern

May 2021 – July 2021

- Experienced with Agile methodology **Sprint** with **ClickUp** for project management and **Git** for software development
- Designed and implemented a data update strategy using **Webhook** and **urllib2** to transfer startups' data (financial data, active users, growth profile, etc.) from Google Sheets to ClickUp, **saved more than 90% of data transfer time**

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
- Devised a Discounted Cash Flow model using Excel for acquisition development of a \$30 million company

PROJECTS

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

December 2021 – May 2022

- 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 backend processing, Polyscope for the front-end rendering, and GoogleTest for unit testing

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

December 2021 – March 2022

- 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

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

October 2021 – January 2022

• Programmed in Python to automate trading activities and market data streaming to simulate various trading strategies