

Yue Hao – Software Engineer

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

PROJECTS

Arrow Investment (JavaScript / Python / React / Redux / Flask / SQLAlchemy / PostgreSQL / CSS / HTML)

[Live](#) | [GitHub](#)

Arrow Investment is a full-stack website inspired by Robinhood that allows users to trade US stock live

- Thoughtfully designed front-end and back-end data flow and calculation engine to modularize application into reduced data fetch requests to optimize website performance and efficiency for a better user experience
- Balanced the cost of external live stock API and website performance by switching to a cost-efficient API at front end in the middle of the project by rewriting all related components and fetch requests which saved the developer \$20 per month
- Implemented interactive stock chart with chartJS to provide users with a vivid picture of individual stock performance and portfolio performance over time with different time horizons selection

DivvyUp (JavaScript / Python / React / Redux / Flask / SQLAlchemy / PostgreSQL / CSS / HTML)

[Live](#) | [GitHub](#)

DivvyUp is a full-stack website inspired by SplitWise that allows users to track and share expenses and bills with friends

- Worked collaboratively with a team of four engineers and leveraged Git workflow and Agile project management experience to guide the team's task prioritization to compensate for teammates' expertise and varied work schedules
- Built full CRUD functions on expense feature with conditional rendering so that users with the proper role can perform specific actions to ensure correct expense tracking and fairness among payers and owners
- Modernized web and mobile UI/UX design from the original website to enhance users' experience with straightforward navigation, and logical placement of buttons using CSS flexbox, z-index, and pseudo-classes

HomeSweetHomeAway (JavaScript / React / Redux / Express / Sequelize / PostgreSQL / CSS / HTML)

[Live](#) | [GitHub](#)

HomeSweetHomeAway is a full-stack website inspired by Airbnb that allows users to book vacation homes all over the world

- Spearheaded the design and implementation of the database schema, API routes, and back-end queries, allowing for more specific and organized calls between and front and back end
- Incorporated Amazon S3's data storage infrastructure to upload and retrieve files, benefiting from its data scalability and capacity, resulting in improved page-load performance
- Modularized front-end components to improve code efficiency by reusing the same component for multiple pages

SKILLS AND TECHNOLOGIES

Technologies: Javascript, Python, React, Redux, Node.js, Express.js, Flask, Sequelize, SQL, SQLAlchemy, PostgreSQL, SQLite3, HTML, CSS, AWS S3, Docker, Git, Render, chartJS, Mocha, Chai

Skills: leadership, people management, time management, stress management, attention to detail, team building, relationship management, strong oral and written communication, pair programming, test-driven development (TDD), object-oriented programming (OOP), agile project management, data structures and algorithms, debugging, deployment

EXPERIENCE

Treasury Manager - Affirm

Jun 2021 - Oct 2022

- In charge of the company's treasury strategy that successfully issued a \$1.73 billion convertible note in Nov 2021 to secure a 5-year long-term financing before the rising funding cost and led the company's balance sheet risk management that proactively diversified bank accounts and avoided being impacted by the collapse of the Silicon Valley Bank
- Managed a team of 4 direct reports and motivated the team to work creatively and collaboratively to deliver top-class treasury strategy while maintaining excellent relationships with product, engineer, finance, and operations departments

Portfolio Management Specialist - Societe Generale Corporate and Investment Bank

Jun 2019 - Jun 2021

- Price liquidity cost on each deal with loan origination and underwriting team on a day-to-day basis using liquidity pricing models which saved the firm multimillions of dollars every year

Liquidity Risk Management Associate - Societe Generale Corporate and Investment Bank

Feb 2015 - Jun 2019

- Led the multimillion project with the technology team under Agile principles to implement 7 financial models from Microsoft Access and Excel to C++ database and MicroStrategy BI tool with 8 full-times over a 3-month period

EDUCATION

App Academy, Full Stack Development

Oct 2022 - Apr 2023

Pace University, BBA/MS in Accounting and Financial Management

May 2015