Yue Hao – Software Engineer

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Career Summary

- Full stack software engineer trained at App Academy with seven years of prior industry knowledge in finance, including deep domain expertise in Corporate Treasury, Investment Banking, FP&A, and payment networks
- Analytical and strategic problem solver having worked in a fast-paced solution-oriented environment with the ability to break down multi-faceted goals into simpler ones and handle multiple complex issues at the same time
- Strong collaboration and communication skills having worked with cross-functional departments such as Product and Engineering to provide requirements and features for internal tools

EDUCATION

App Academy, Full Stack Development   Apr 2023
Pace University, **Bachelor of Business Administration/Master of Science in Accounting and Financial Management**   May 2015

EXPERIENCE

Part-time, Computer Science AI Trainer - *Scale AI*   Oct 2023 - Present
- Rate a series of computer science-related responses that were produced by a generative AI model and give feedback
- Edit code written by an AI model to fix bugs and improve performance

Volunteer, Full Stack Engineer - *Balancer* GitHub   Sep 2023 - Present
- Built an interactive 'About Us' page from a preliminary wireframe using TypeScript, React and TailwindCSS to enhance users' understanding of the AI-driven bipolar medicine recommendation model, and attract funding for future model refinement

Manager, Treasury team - *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 Silicon Valley Bank collapse
- 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 cross-functional relationships with Product, Engineering, Finance departments

Portfolio Management Specialist - *Societe Generale Corporate and Investment Bank*   Jun 2019 - Jun 2021
- Priced 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 millions of dollars every year

Liquidity Risk Management Associate - *Societe Generale Corporate and Investment Bank*   Feb 2015 - Jun 2019
- Led the multimillion project with the engineering team under Agile principles to implement 7 financial models from Microsoft Access and Excel to C++ database and MicroStrategy BI tool with 5 software engineers over a 3-month period

PROJECTS

Arrow Investment - *a full-stack website inspired by Robinhood that allows users to trade US stocks live*   Live | GitHub
- Designed front-end and back-end data flow and calculation engine to modularize the application into reduced data fetch requests which optimized website performance and efficiency for a better user experience
- Reduced the cost of external live stock API by 60% and improved the website performance by switching to another API for the front-end, halfway through the project by rewriting related components and fetch requests
- Implemented interactive stock chart with chartJS to provide users with a complete picture of individual stock performance and portfolio performance over time with different time horizons selection

DivvyUp - *a full-stack website inspired by SplitWise that allows users to track and share expenses and bills with friends* Live | GitHub
- Collaborated with a team of four engineers and leveraged Git workflow and Agile project management to guide the team's task prioritization to account 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 accomplish the tracking of accurate expenses amongst all parties
- 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 - *a full-stack website inspired by Airbnb that allows users to book vacation homes*   Live | GitHub
- Spearheaded the design and implementation of the database schema, RESTful web API routes, and back-end queries, optimizing workflow between 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

Javascript, Python, React, Redux, Node.js, SQL, SQLAlchemy, Tailwind, AWS S3, Docker, Git, chartJS, Mocha, Chai, test-driven development (TDD), agile project management, debugging, deployment, cross-functional collaboration, data structure and algorithm