
EDUCATION

UNIVERSITY OF ROCHESTER

Bachelor of Science: in Computer Science

Awards: Entrepreneurship, Rush Rhees Scholar

Coursework: Computer Architecture, Data Mining, Machine Learning, Database Systems, Statistics, Artificial Intelligence, Data Structures and Algorithms (DSA), Algorithms Design & Analysis, Web Development Discrete Mathematics, Calculus, Linear Algebra.

Rochester, New York

Anticipated May 2024

WORK EXPERIENCES

Meta Inc.

(Software Engineering Intern)

May 2022 – August 2022

- Designed, developed, and deployed an internal tool enabling Meta engineers to simulate how an upcoming Facebook feature would behave in the real world.
- This tool helped engineers focus on Engineering by automating their testing process and limiting the manual effort necessary to validate the system, increasing debugging efficiency in the project by 90% by reducing 10 minutes of work to 1 minute.

(Facebook University for Engineering Intern)

June 2021 – August 2021

- Learned Full-Stack Android Software Development and built a Todo list application, and MVP replicas of Twitter, Flixster and Instagram applications all within a month.
- Designed a college course scheduling application as a final project. Reviewed the details with my manager and stakeholders, then built, tested, and deployed the application.

University of Rochester

(Research Assistant)

August 2022 – December 2022

- Improved the existing Approximate Query Processing data pipeline by combining existing locality sensitive hashing with a query search and pruning technique which worked by using join samples of tables in the graph to limit the number of candidate tables and paths in the data graph.
- Provided a supporting role to the teammate that presented the short paper at ACM's (Association for Computing Machinery) Hilda 2023 conference! [Link](#)

(Workshop Leader: DSA)

September 2020 – December 2022

- Improved student performance with a 15% average increase in post-workshop assessment scores.
- Maintained 95% average workshop attendance rate, alongside high student engagement in workshops.
- Integrated real-world uses of the algorithms, resulting in higher student interest and reported understanding.

(First Year Academic Fellow)

September 2020 – May 2021

- Served as a student advisor and hosted three online events for first year students during the COVID semesters introducing them to academic resources on campus.

High Probability Advisors LLC

(Research Analyst Intern)

June 2020 – August 2020

- Developed a database of information (size, location, investment strategies, performance/risk, fees) at a national level across factor-based advisors in order to inform management about their competition.
- Summarized results and presented findings to High Probability Advisors LLC.

PERSONAL PROJECTS

- Leveraged Apache Kafka/Confluent to monitor new comments and likes made on my Youtube playlist, streaming new likes/comments as events to my Telegram bot.
- Built a trading system with architecture for real time data streaming, analytics, and order placement using TradingView webhooks, Hookdecks, Python and MetaTrader. Currently working on a new system using `ib_insync` and TimescaleDB in order to remove the current reliance on TradingView.
- Built a SaaS platform with functionalities for AI Conversations, Pictures/Audio/Video generation using OpenAI and Replicate AI APIs, Tailwind.css, Next.js and React.js.
- Deepened Apache Kafka skills by building a video streaming application using Kafka producers/consumers.
- Generated backtest data for a proposed college quant finance club competition by creating a Selenium script that went to Wharton Research Data Services and retrieved 10GB of stock data across 99 US companies between 2006 and 2020.

Hobbies: skating, reading novels,.