

Rishab Banthiya

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EDUCATION

University of Illinois at Urbana-Champaign

Masters's in Financial Engineering

Champaign, IL

Aug. 2024 – May 2026

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science + Economics

Champaign, IL

Aug. 2020 – May 2024

EXPERIENCE

Technology Analyst

Societe Generale

June 2023 – Aug. 2023

New York, NY

- Crafted interactive data visualizations using JavaScript and Highcharts, improving data comprehension, enabling informed decision-making, and supporting client visits
- Streamlined deployment processes by orchestrating seamless transitions from development to production using Docker and Jenkins CI/CD pipelines, enhancing application scalability and uninterrupted operation.
- Engineered a Spring Boot application, augmenting PSQl queries to revitalize financial data management.
- Executed thorough Swagger documentation via OpenAPI3, defining multiple API endpoints to promote collaboration among teams.

Quantitative Analyst

Banach Technologies

Oct. 2022 – May 2023

Singapore

- Constructed reinforcement learning models employing deep Q learning and experience replay for automated cryptocurrency trading in 1D and 2D spaces.
- Employed models using TensorFlow, NumPy, Pandas, and gym any-trading libraries.
- Evaluated models' predictive accuracy and capacity to generate profitable trading choices based on past market trends.

Software Engineering Intern

Pfizer

June 2022 – Aug. 2022

Groton, CT

- Crafted interactive components to display data with REACT, amplifying data visualization and analysis.
- Contributed to the design and execution of predictive models, yielding precise and dependable insights into outcomes of drug trials.
- Enhanced drug discovery by developing predictive models in C++, enabling improved anticipation of outcomes in small molecule drug trials.

Course Assistant

University of Illinois at Urbana-Champaign

June 2022 – May. 2023

Groton, CT

- Guided CS 126 and CS 222 students as a Course Assistant, offering comprehensive code reviews with Agile methodologies such as Scrum and Kanban.
- Organized regular stand-up meetings and iterative development, resulting in the prompt creation and presentation of over 12 applications in 3 months.

PROJECTS

Naive Bayes | C++, Git

Jan 2022 – May 2022

- Trained a C++-based model to efficiently process an extensive image database, constructing a posterior bias.
- Devised supervised machine learning algorithm for image classification, facilitating accurate categorization and implementing a self-validation mechanism.

Markowitz Model for Sports Betting | Python, SciPy, API's

May 2018 – May 2020

- Developed an application to construct portfolios of sports bets using the Markowitz model using SciPy optimization.
- Leveraged API's to backtest bundles of bets against historical odds data

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, HTML/CSS, OCaml

Frameworks: React, Django, Flask, JUnit, Spring

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jenkins

Libraries: pandas, NumPy, Matplotlib, SciPy, Gym, requests