Rishab **Banthiya**

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Education

University of Illinois at Urbana-Champaign — *Champaign, IL*

B.Sc. in Computer Science and Economics — *Aug. 2020 - May. 2024*

GPA: 3.8

Relevant Coursework: Artificial Intelligence, Algorithms and Models of Computing, Computer Architecture, Probability and Statistics in CS, Operating Systems, Distributed Systems, Financial Economics, Game Theory, Behavioral Economics

Work Experience

Societe Generale — *New York, NY*

Technology Analyst, Intern — *Jun. 2023 - Aug. 2023*

- Crafted interactive data visualizations using JavaScript and Highcharts, markedly 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, resulting in enhanced 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 effective collaboration among development teams.

Banach Technologies — *Singapore*

Quantitative Analyst, Intern — *Oct. 2022 - May. 2023*

- 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. Analyzed model performance rigorously through backtesting against historical cryptocurrency market data.
- Evaluated models' predictive accuracy and capacity to generate profitable trading choices based on past market trends.

Pfizer — *Groton, CT*

Software Engineer, Intern — *Jun. 2022 - Aug. 2022*

- Crafted interactive components to succinctly 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.

UIUC — *Champaign, IL*

Course Assistant, Project Manager — *Jun. 2022 - May. 2023*

- 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 prompt creation and presentation of over 12 applications in 3 months.
- Fostered inclusive team environment by championing transparent communication and facilitating regular retrospective sessions, accelerating development, continuous feedback integration, and delivering user-centric, high-quality applications.

Projects

Naive Bayes — *Champaign, IL*

Stack: C++ — *Jan 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.

Behavioral Economics of Poker — *Champaign, IL*

Co-Author — *Sept 2023*

- In this study we evaluated how poker players' behaviors were influenced by external factors in different situations. In this process we discovered how these players aligned with certain behavioral fallacies, specifically gambler's fallacy, sunk cost fallacy, and endowment effect.

TwitterVerse — *Champaign, IL*

Stack: Python, Django, HTML, CSS, JavaScript, TwitterDev API — *Present*

- Created a web application utilizing Twitter's developer API and the NLTK library to conduct sentiment analysis on tweets, allowing users to search for tweets using keywords and analyze emotional context.

Technologies/Frameworks

Programming Languages: C++, Java, Python, Git/Github, Bash, SQL, HTML/CSS, Javascript, NoSQL, C, SQL, R

Other Skills: Agile Development, Cloud Computing, Algorithm Development, Heroku, Tableau, Looker

Certifications: Data Science (University of Michigan, 2023)