Kartik Subramanian

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EDUCATION

The University of Chicago **Chicago, IL**
Master of Science in Financial Mathematics **Expected December 2025**

- Courses: Probability & Stochastic Processes, Option Pricing, Portfolio and Risk Management

University of Illinois at Urbana-Champaign **Champaign, IL**
Bachelor of Science in Computer Science & Economics **May 2024**

- Courses: Probability Theory, Game Theory, Machine Learning, Data Structures & Algorithms, Discrete Structures, Cryptography, Compilers, High Frequency Trading, Financial Economics

SKILLS

Computing: Python, C++, Rust, NumPy, Pandas, SQL, C#, Java, Unix/Linux, AWS, CI/CD, Git, Azure, Docker
Trading: Market microstructure, DeFi, equities, derivatives, market data

EXPERIENCE

S&P Global **Remote**
Software Developer Intern **June 2024 – August 2024**

- Built a tool to convert natural language to Elastic Search queries using an LLM
- Participated in the Agile process and resolved various bugs affecting the Capital IQ platform
- Achieved 1st place out of 40+ teams in company-wide innovation challenge/hackathon

Balyasny Asset Management **Chicago, IL**
Summer Associate - Market Data **June 2023 - August 2023**

- Wrote a code-generator to generate Parquet schemas for C++ structs
- Built a feed-handler plugin to filter and save market data to AWS S3 Buckets
- Developed a real-time pricing engine to price arbitrary baskets of securities

Golub Capital **Chicago, IL**
Software Developer Intern **June 2022 - August 2022**

- Upgraded legacy APIs to the OData standard, creating a single filterable API exposing numerous datasets
- Migrated applications from on-prem to Azure and wrote internal documentation for firm's cloud initiative
- Wrote SQL stored procedures to pull transaction data and compute rolling metrics

CBM Partners **Remote**
Quantitative Developer Intern **September 2021 - February 2022**

- Diagnosed and resolved DNS issues affecting email campaigns, increasing delivery rates by over 30%
- Developed web scrapers to pull investor leads from sites including LinkedIn, Doximity, and Signal
- Automated sales workflow using browser scripts in Selenium

EXTRACURRICULAR

Disruption Lab, Gies College of Business **Champaign, IL**
Product Manager **February 2022 - January 2023**

- Managed a team of 5 engineers and ensured timely completion of software deliverables
- Scraped 13F filings and macroeconomic data from FRED to construct custom dataset
- Developed a diffusion learning model to learn the investment process of institutional investors

PUBLICATIONS

- Zhao Zhang, Tavish Vaidya, Kartik Subramanian, Wenchao Zhou, and Micah Sherr. Ephemeral exit bridges for tor. In 2020 50th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN), pages 253–265, 2020