

# Dhruv Sundararaman

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## EXPERIENCE

### IMC Trading

June 2023 – Aug 2023

*Software Engineering Intern*

*Chicago, IL*

- Developing high-performance infrastructure on the Value Market Making strategy team
- Collaborating closely with traders to translate their desired features into robust, production-ready solutions
- Building and rapidly iterating on functionality within multi-threaded, distributed client server trading applications

### Visa Inc.

May 2022 – Aug 2022

*Software Engineering Intern*

*Atlanta, GA*

- Worked on the Payments Product Development team to develop search infrastructure on the FX Platform team
- Aggregated and filtered foreign exchange transactions to be queried, displayed, and updated in real-time
- Built Spring backend to process queries from an Angular interface to reveal order details from MySQL database

### Chakrabarti Management Consultancy Inc.

June 2021 – Aug 2021

*Software Engineering Intern*

*Fairfax, VA*

- Developed Spring Boot application to develop web-app to translate XML files to user-readable reports
- Parsed through 1000+ lines of data from Customs and Border Protection
- Streamlined CMCI's data processing service through facilitating data analysis

## EDUCATION

### University of Illinois Urbana-Champaign

Champaign, IL

*Master of Computer Science*

*May 2025*

*Bachelor of Science in Computer Science + Linguistics, Minor in Statistics*

*May 2024*

Operating Systems, Natural Language Processing, Speech Signal Processing, Distributed Systems, Machine Learning  
Numerical Methods, Computer Architecture, Compilers, Computer Networking, Probability & Statistics

## PROJECTS

### Object Store | C++

Jan 2022 – May 2022

- Assisted with integration of templated B+ Tree structure for on-disk object store
- Reduced tail-latency issues associated with hashing through tree structure implementation
- Built out serialization and search functionality for key-value pairs

### AlgoBot | Python, Pandas, YFinance, Statsmodels

Oct 2021 – Dec 2021

- Built a Discord bot to simulate real-time trading for testing algorithmic strategies
- Implemented functionality to deliver TD-differential analysis based recommendations and ARIMA forecasting
- Scraped real-time ticker data from YFinance API to ensure accuracy of analysis

## ACTIVITIES AND HONORS

### Autonomous Vehicles Research Assistant | Mitra Research Group

April 2022 – Dec 2022

- Testing vision-based drone decision making and simulating ground-truth data collection through AirSim

### Computer Science Instructor | Juni Learning

Mar 2022 – Aug 2022

- Teaching students concepts ranging from OOP to algorithmic problem solving in Python, Java, C++, JavaScript

**Honors** | National Merit Finalist, Eagle Scout - Troop 1983, Presidential Volunteer Service Award(Gold)

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, TypeScript, R, MySQL, Verilog, OCaml

**Frameworks:** Flask, React, Node.js, Angular

**Libraries:** Pandas, NumPy, Matplotlib, Yahoo Finance