

# Avyuk Dixit

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## EDUCATION

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### University of Michigan

*BS in Computer Science, Minor in Mathematics; GPA: 3.92/4.0*

**August 2020 – May 2024**

*Ann Arbor, MI*

- Courses: Data Structures and Algorithms, Operating Systems, Computer Organization, Algorithms, Programming Languages, Compiler Construction, Real Analysis, Probability Theory, Theoretical Statistics

## WORK EXPERIENCE

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### Thunder Compute

*Founding Engineer*

**March 2026 – Present**

*San Francisco, CA*

- GPU over TCP – work in C++ and Go.

### Old Mission Capital

*Software Engineer*

**August 2024 – March 2026**

*Chicago, IL*

- Research Infrastructure – writing new marketdata capture stack as the firm scales. This involves 1) designing and building software to split, compress, and upload >100TB/day of captures to object storage from custom hardware machines and 2) writing downstream consumers for tasks such as gap detection and payload deduplication. Work in C++ and Python.
- Completed projects across various teams over first year (RI, DevOps, HFT Options, Exchange Symbology).

### Optiver

*Software Engineer Intern*

**June 2023 – August 2023**

*Chicago, IL*

- Worked as part of the Global Data Engineering team – implemented improvements in packet sifter application: bandwidth stats to determine cross connect traffic on a per link and channel basis, liveness audit to monitor sifter health, performance profiling to identify sections of code to improve. Worked in Python, C, and C++.

### Madison Avenue Partners

*Analyst Intern*

**Jan 2023 – June 2023**

*New York, NY*

- Madison Avenue Partners is a \$1bn+ L/S event-driven, value-oriented hedge fund. I conducted diligence on names across industries, screened for and pitched ideas, and learned about all parts of the investment lifecycle.

### Amazon Web Services

*Software Development Engineer Intern*

**May 2022 – August 2022**

*Arlington, VA*

- Worked on the Fault Injection Simulator (FIS) Team: AWS FIS is a fully managed chaos engineering service that make it easier to improve application performance and resiliency.

### Enterprise e-Support, Inc.

*Software Developer Intern*

**May 2021 – August 2021**

*Springfield, VA*

- Proposal Bid Decision Tool: Built and deployed internal web application in Flask and React to replace external tool for go/no-go decisions on request for proposals (RFPs). Total cost-savings of \$6000/yr.
- Resume Parsing Utility: Streamlined recruiting process by creating machine learning resume parsing utility in Spacy. Tool is now integrated with day-to-day operations at the company; used for ~5000 resumes/month.

## PROJECTS

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### Reshape.io

**January 2022 – January 2023**

- Natural language data analytics tool built with SQL, FastAPI, and Spacy. Won Contrary Capital Build Sprint and demoed to multiple potential customers including Head of Analytics @ Intuit, Head of Sales @ Phantom Auto, CI Manager @ Google

### Market Dashboard

**July 2021 – Current**

- Built platform to help inform investment decisions using FastAPI and React. Features include simplified DCF valuation, commodity supply/demand models, and semantic search over bookmarked research.

## ACTIVITIES

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### Atlas Digital Consulting

**August 2020 – Present**

- Senior advisor. Atlas does pro-bono tech consulting (primarily mobile/web dev) for local businesses and student orgs.

### Quantitative Investment Society

**August 2021 – Present**

- Strategy team lead, responsible for multiple projects across 20+ members. Projects included pairs trading, event driven data scraping, and a fundamental focused factor model.

## SKILLS

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**Languages:** Python, C++

**Other:** Linux, Git