Avyuk Dixit

www.linkedin.com/in/avyukd

University of Michigan

EDUCATION

August 2020 - May 2024

Email: avyukd@umich.edu

Website: avyukd.github.io

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

Ann Arbor, MI

Courses: Data Structures and Algorithms, Operating Systems, Computer Organization, Algorithms for Data Science,
 Programming Languages, Real Analysis, Probability Theory, Theoretical Statistics

Upcoming: Intro to Distributed Systems, Computer Networks, Stochastic Processes

WORK EXPERIENCE

Optiver June 2023 – August 2023

Software Engineer Intern

Chicago, IL

• Part of the Global Data Engineering team – we are responsible for capturing market data network packets and generating pristine unstructured datasets for downstream use. Primarily working in C (and some C++ and Python).

Madison Avenue Partners

Jan 2023 – June 2023

Analyst Intern

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

May 2022 - August 2022

Software Development Engineer Intern

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.
- Log Consolidation Project: Consolidated CloudWatch and S3 logs into FIS console to improve customer experience. Used Athena for querying and uncompressing gzip S3 logs. Built feature in TypeScript/React with native Polaris UI.

Enterprise e-Support, Inc.

May 2021 - August 2021

Software Developer Intern

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.

Harvard Medical School

June 2019 - December 2020

Machine Learning Researcher

Boston, MA

- Worked under guidance of Dr. Michael Vincent Boland on a project to assess glaucoma progression in patients from multiple data sources using machine learning (Convolutional LSTM). Model had 91% accuracy and 0.89 AUROC.
- First-authored paper and published in peer-reviewed *Ophthalmology* journal, the premier publication of the American Academy of Ophthalmology. DOI: https://doi.org/10.1016/j.ophtha.2020.12.020; *A. Dixit, J. Yohannan, M. Boland*

PROJECTS

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.
- Command line utility for fast options pricing and expected value analysis using Black-Scholes. Helped uncover systematic
 mispricing of Valaris warrants post-bankruptcy.

ACTIVITIES

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.

Maize and Blue Endowment Fund

September 2021 – Jan 2022

• Student run fund managing \$700,000 of university's endowment. Pitched Zillow Group.

SKILLS

Languages: Python, C++

Other: Excel