

Nikhil Datar

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Education

Harvard University

Cambridge, MA

A.B. CANDIDATE IN COMPUTER SCIENCE

Aug. 2021 - May. 2025

- **Relevant Coursework:** Machine Learning, Systems Programming and Machine Organization, Probability, Introduction to Algorithms, Theoretical Linear Algebra, Data Science, Quantitative Finance
- **Activities and Societies:** Harvard College Consulting Group, Harvard Innovation Labs, Harvard Blockchain Club

Skills

Languages: Python, JavaScript, C/C++, Java, SQL, HTML/CSS

Libraries, Frameworks, and Technologies: pandas, numpy, scikit-learn, pytorch, Node, React, Express, AWS

Work Experience

Harvard Medical School, Department of Biomedical Informatics

Boston, MA

MACHINE LEARNING RESEARCH INTERN, PRANAV RAJPURKAR RESEARCH LAB

Feb. 2022 - Aug. 2022

- Contributed to developing a deep learning model for endotracheal tube position detection from chest radiographs and patient reports.
- Used Python (pandas, numpy, pytorch) and AWS (EC2, S3) to fine-tune a pretrained machine learning model for automatic annotation and analysis of three publicly available chest x-ray datasets, achieving 98% accuracy.

Harvard College Consulting Group

Cambridge, MA

ASSOCIATE

Feb. 2022 - Present

- Worked in a six-person case team to develop a comprehensive supply chain distribution model for a Fortune 100 food and beverage company.
- Designed strategy and roll-out of a crypto token for an international humanitarian aid organization.
- Used Python's pandas library to analyze internal inventory and sales data, ultimately proposing a new distribution model that increased demand fulfillment by 9.1%.

Resultant

Indianapolis, IN

DATA ANALYTICS AND MANAGEMENT CONSULTING INTERN

May 2019 - Aug. 2019

- Managed, updated, and analyzed an internal projects database using SQL queries, and assisted in providing organizational health for various clients.
- Co-created an application demo (JavaScript, HTML/CSS) for an internal optimization case study, and presented to company executives.

Projects

Chatapp

Cambridge, MA

SOFTWARE ENGINEER

Feb. 2023

- Built a client-server application (python) that supports create account, login, list account, delete account, send message, and deliver commands.
- Implemented multi-client support both from scratch (socket, threading) as well as with gRPC (Google Remote Procedure Call).

NBA Info

Cambridge, MA

SOFTWARE ENGINEER

Nov. 2021 - Dec. 2021

- Built a web application (flask, jinja, sqlite3, HTML, CSS, RESTful APIs) that serves as a central NBA informational hub.
- Implemented user authentication and persistent storage, allowing users to view scores of the NBA's most recent games and bet on upcoming games.

Honors & Awards

2020-2021 **Two-Time US National Chemistry Olympiad Finalist**, Top 215 in the nation, Score: 36

2021 **We The People Government National Finalist + Indiana State Champion**, Top 11 in the nation, Unit 4

2020 **National Economics Challenge State Runner-Up**, Adam Smith Division

2017-2021 **Chess National Top 100 Juniors**

2017 **Indiana Scholastic State Chess Champion**, Dewain Barber National Tournament of Champions Invitee

2020 **IDEAA Prototyping Challenge State Champion**