

# **Rakesh S. Nori**

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## **EDUCATION**

### **Harvard College**

Computer Science & Engineering, S.M. and A.B. (Concurrent Masters and Bachelors), **GPA: 3.94/4.0** Cambridge, MA May 2024

- **Relevant Coursework:**

Systems Prog., Data Structures & Algo, Statistics: Probability & Inference, Theoretical Computing, Machine Learning, Quant Finance, Distributed Systems, Programming Languages, Systems Development, Data Science, Big Data

## **ENGINEERING EXPERIENCE**

### **Splunk**

San Francisco, CA

#### Machine Learning Engineering Intern

May 2023 – Present

- Contributed production-level code as a full-stack developer for the release of Anomaly Detection App. Used Typescript and Python. Developed an adjacent internal telemetry dashboard to report user behavior within app.
- Improved model's pointwise F1 score by 20 percentage points through integrating novel deep learning algorithms such as LSTMs and AERs using TensorFlow. Presented findings to Head of ML at Splunk.

#### Software Engineering Intern: Cloud Networking Traffic Engineering Team

May 2022 – Aug 2022

- Designed and deployed custom scripts using Python and Bash to automate IPAM and monitoring tasks, which removed a bottleneck for 100+ employees requesting manual IPAM services
- Led POCs / product reviews in meetings with third party networking services, drafted POC that I presented to Director of Splunk Cloud and ultimately used to purchase the service.

### **Quantumscape**

San Jose, CA

#### Software Engineering Intern

May 2021 – Aug 2021

- Incorporated gRPC, Protobuf, Kubernetes, and Docker to deploy a server that wrapped around company's time series database & query data from over 100,000+ data points
- Constructed an unsupervised anomaly detection model for time series battery conductivity data. Used results to predict the best electrolyte for battery conductivity out of 300+ candidates

### **Harvard Tech for Social Good**

Cambridge, MA

#### Senior Software Engineer

Sept 2020 – Jan 2022

- Managed a 5-member software team develop full-stack apps for 3 non-profit organizations to help expand reach, reduce emissions, and integrate ML technologies

## **EXTRACURRICULAR EXPERIENCE**

### **Harvard Blockchain Club ([HBC](#))**

Cambridge, MA

#### Director of [Labs](#)

Jan 2022 – Dec 2022

- Connected ~10 Harvard Web3 Teams to top VCs and accelerators (a16z, Bain, Neo, YC)
- Hosted web3 development workshops featuring developers from top companies (Alchemy, Solana)

### **Harvard Undergraduate Capital Partners.**

Cambridge, MA

#### Managing Director of Sourcing

Jan 2021 – May 2022

- Spearheaded a 20-member team in sourcing 100+ promising college-based startups for top VC firm partners

### **STAT 110: Intro to Probability**

Cambridge, MA

#### Teaching Fellow

Aug 2021 – Dec 2022

- Provided Feedback and Supplementary Instruction on College-level statistics concepts for over 30 students
- Synthesized lecture notes and effectively communicated statistical problem-solving methods to students in sections

## **SKILLS & PROJECTS:**

**Technical Skills:** Python, React, Java R, Bash script, C, C++, Protobuf, Docker, Neo4J, Statistical Data Analysis; Proficient in C#, SQL, MATLAB

### **NotesWise**

May 2023 - Present

- Built a [chatbot](#) Teaching Assistant using that uses students' notes and textbooks to help them answer homework questions. Used Langchain, ChromaDB, OpenAI's GPT API, and Streamlit.

### **MindWell**

May 2023 - Present

- Building a Journaling Website Using JavaScript, Django, and Python that Leverages GPT-4's LLM to Perform Emotion Analysis on User's Journal Entries

### **Keystream**

Nov 2022

- Built a web service to Lend Subscription Services (e.g. Netflix). Placed 2<sup>nd</sup> + won \$10k at Tron's Web3 Hackathon