

Pranav Varshney

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EDUCATION

University of Michigan

B.S. Computer Science, Data Science

Dec 2026

Ann Arbor, MI

EXPERIENCE

Uber

Jan 2026 - Apr 2026

Software Engineering Intern | Rideshare Match Optimizations

San Francisco, CA

- Interning Winter 2026, working on machine learning optimizations for rideshare recommender systems

Scale AI

July 2025 - Oct 2025

Generative AI Intern | Technical Advising

Remote

- Developed a retrieve and rerank RAG pipeline to automate LLM inputs for data annotation via candidate filtering
- Built a high-throughput benchmark system to score 8K+ model responses daily, reducing 60% annotation errors
- Created an LLM-as-a-judge system alongside adjudication measures to improve data labeling correctness to 96%

Amazon Web Services

May 2025 - July 2025

Software Engineering Intern | Infrastructure Tooling

Bellevue, WA

- Created a Go-based CLI for mapping 1M+ SageMaker endpoints to adjacent AWS Services for troubleshooting
- Developed a real-time system health monitoring framework, yielding an on-call response time reduction of 70%
- Built containerization tooling for audit systems through AWS copilot, enabling support over 10,000 queries/wk

United Wholesale Mortgage

May 2024 - Aug 2024

Software Engineering Intern | Data Optimizations

Pontiac, MI

- Normalized databases using 3NF, reducing duplicates by 45% to accelerate GCP migration timeline by 3 weeks
- Saved \$20K by implementing a random forest model to classify loan outcomes, accepting or rejecting the proposal

Ratna Global Technologies

May 2023 - Aug 2023

Software Engineering Intern | Customer Satisfaction

Newark, CA

- Developed a RAG based customer support system using company data to resolve 80% inquiries with 90% accuracy
- Retained \$1.2K/month in API request costs by implementing a redis cache in react, reducing redundant API calls

RESEARCH

Precision Imaging × Artificial Intelligence (University of Michigan)

Oct 2025 - Present

- Engineered models for automated segmentation of cardiac chambers and quantification of ejection fraction
- Building a standardize CVD diagnosis platform, targeting interoperability with portable ultrasound devices

Network Dataset Generation (University of Michigan)

Jan 2025 - May 2025

- Designed AST-aware transformer using constrained attention mechanisms, achieving 92% code generation accuracy
- Designed contrastive learning pipeline for automated dataset expansion, increasing training samples by 250%

PROJECTS

Cvrve

- Evaluated and Sold at 7 figures; helped develop the platform infrastructure behind job board [cvrve](#) used by 100k+

Sharded Key-Value Store | Go, Paxos, Concurrency

- Built a fault-tolerant, sharded key-value store using Paxos for consensus and coordination between replica groups
- Implemented dynamic reconfiguration to safely transfer shards between replica groups during changes in topology

SKILLS

Languages: Python, C++, Go, Java, C#, Typescript, Javascript, SQL

Technologies: Docker, Flask, Next, React, Node, Express, Tailwind CSS, Pandas, NumPy, Plotly, Sci-kit Learn

Concepts: Full-Stack Development, Mobile Development, Cloud Computing, Parallel Programming, Machine Learning, NLP, Computer Vision, Data Analytics, Big Data, Embedded Systems, Quantum Computing, Computer Security, Linux