

# Pranav Varshney

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## EDUCATION

### University of Michigan

B.S. Computer Science

Dec 2026

Ann Arbor, MI

## EXPERIENCE

### Plaid

May 2026 - Aug 2026

Software Engineering Intern

New York, NY

- Incoming Summer 2026 intern working on end-to-end backend infrastructure under Customer Foundations

### Uber

Jan 2026 - Apr 2026

Software Engineering Intern

San Francisco, CA

- Incoming Winter 2026 intern working on machine learning optimizations for rideshare recommendation systems

### Scale AI

July 2025 - Oct 2025

Generative AI Intern | Eval Pipelines

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 | Sagemaker

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

### University of Michigan

Aug 2024 - Dec 2024

Instructional Assistant | Python Programming

Pontiac, MI

## RESEARCH

### Precision Imaging × AI Laboratory | [Prof. Joyce Wang](#)

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

### Self Operating Networks Laboratory | [Prof. Victor Liu](#)

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](#)

- Sold at 7 figures; helped develop the infrastructure observability behind [job board](#) (prev. 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