

Pranav Varshney

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EDUCATION

University of Michigan B.S. Computer Science	Dec 2026 Ann Arbor, MI
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EXPERIENCE

Uber Software Engineering Intern (Winter) Rideshare Optimizations	Jan 2026 - Apr 2026 San Francisco, CA
Scale AI Generative AI Intern Eval Pipelines	July 2025 - Oct 2025 Remote
<ul style="list-style-type: none">Developed a retrieve and rerank RAG pipeline to automate LLM inputs for data annotation via candidate filteringBuilt a high-throughput benchmark system to score 8K+ model responses daily, reducing 60% annotation errorsCreated an LLM-as-a-judge system alongside adjudication measures to improve data labeling correctness to 96%	
Amazon Web Services Software Engineering Intern Sagemaker	May 2025 - July 2025 Bellevue, WA
<ul style="list-style-type: none">Created a Go-based CLI for mapping 1M+ SageMaker endpoints to adjacent AWS Services for troubleshootingDeveloped 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 Instructional Assistant Python Programming	Aug 2024 - Dec 2024 Pontiac, MI
United Wholesale Mortgage Software Engineering Intern	May 2024 - Aug 2024 Pontiac, MI
<ul style="list-style-type: none">Normalized databases using 3NF, reducing duplicates by 45% to accelerate GCP migration timeline by 3 weeksSaved \$20K by implementing a random forest model to classify loan outcomes, accepting or rejecting the proposal	
Ratna Global Technologies Software Engineering Intern	May 2023 - Aug 2023 Newark, CA
<ul style="list-style-type: none">Developed a RAG based customer support system using company data to resolve 80% inquiries with 90% accuracyRetained \$1.2K/month in API request costs by implementing a redis cache in react, reducing redundant API calls	

RESEARCH

Precision Imaging × AI Laboratory Prof. Joyce Wang	Oct 2025 - Present
<ul style="list-style-type: none">Engineered models for automated segmentation of cardiac chambers and quantification of ejection fractionBuilding a standardize CVD diagnosis platform, targeting interoperability with portable ultrasound devices	
Self Operating Networks Laboratory Prof. Victor Liu	Jan 2025 - May 2025
<ul style="list-style-type: none">Designed AST-aware transformer using constrained attention mechanisms, achieving 92% code generation accuracyDesigned contrastive learning pipeline for automated dataset expansion, increasing training samples by 250%	

PROJECTS

Cvrve <ul style="list-style-type: none">Sold at 7 figures; helped develop the infrastructure observability behind job board (prev. cvrve) used by 100k+	
Sharded Key-Value Store Go, Paxos, Concurrency <ul style="list-style-type: none">Built a fault-tolerant, sharded key-value store using Paxos for consensus and coordination between replica groupsImplemented 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