

Pranav Varshney

US Citizen | pvarshh.me | pvarsh@umich.edu | linkedin.com/in/pvarshh | github.com/pvarshh

EDUCATION

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

EXPERIENCE

Uber	Jan 2026 - Apr 2026
Software Engineering Intern	San Francisco, CA
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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	Pontiac, MI
<ul style="list-style-type: none">• 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	Newark, CA
<ul style="list-style-type: none">• 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 × 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 fraction• Building 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 accuracy• Designed 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 <u>job board</u> (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 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