

VARUN CHANDRASHEKHAR GOHIL

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EDUCATION

Massachusetts Institute of Technology PhD, Electrical Engineering and Computer Science	September 2022 - Present GPA: 5.0/5.0
Indian Institute of Technology Gandhinagar B.Tech, Computer Science and Engineering	July 2016 - July 2020 CPI: 9.04/10

AWARDS AND HONORS

- Placed third in ArchReasoning Challenge held at ISCA 2025 2025
- Best Paper of Computer Architecture Letters 2024
- Awarded the Jacobs Fellowship at Cornell University 2021
- Awarded cash prize of Rs.12,500 by IIT Gandhinagar for undergraduate research 2021
- Best Presentation Award Finalist, HotStorage 2020
- Received Special Mention in Undergraduate Research Conclave, IIT Gandhinagar. 2019
- Secured a position in Dean's List, IIT Gandhinagar for excellent academic performance in all semesters

PUBLICATIONS

(paper titles are hyperlinked)

When Machine Learning Isn't Sure: Building Resilient ML-Based Computer Systems by Embracing Uncertainty

[Varun Gohil](#), Nevena Stojkovic, Noman Bashir, Sundar Dev, Gaurang Upasani, David Lo, Parthasarathy Ranganathan, Christina Delimitrou
Annual Conference on Machine Learning and Systems, (MLSys), 2026

The Importance of Generalizability in Machine Learning for Systems

[Varun Gohil](#), Sundar Dev, Gaurang Upasani, David Lo, Parthasarathy Ranganathan, Christina Delimitrou
IEEE Computer Architecture Letters, (CAL), 2024

Selected as Best of IEEE Computer Architecture Letters 2024

Sabre: Improving Memory Prefetching in Serverless MicroVMs with Near-Memory Hardware-Accelerated Compression

Nikita Lazarev, [Varun Gohil](#), James Tsai, Andy Anderson, Bhushan Chitlur, Zhiru Zhang, Christina Delimitrou
18th USENIX Symposium on Operating Systems Design and Implementation (OSDI), 2024

The Sunk Carbon Fallacy: Rethinking Carbon Footprint Metrics for Effective Carbon-Aware Scheduling

Noman Bashir, [Varun Gohil](#), Anagha Belavadi Subramanya, Mohammad Shahradd, David Irwin, Elsa Olivetti, and Christina Delimitrou
ACM Symposium on Cloud Computing, (SoCC), 2024

Performance optimization opportunities in the Android software stack

[Varun Gohil*](#), Nisarg Ujjainkar*, Joycee Mekie, Manu Awasthi
BenchCouncil Transactions on Benchmarks, Standards and Evaluations (TBench), October 2021

Fixed-Posit: A Floating-Point Representation for Error-Resilient Applications

Varun Gohil*, Sumit Walia*, Joyce Mekie, Manu Awasthi

IEEE Transactions on Circuits and Systems II : Express Briefs (**TCAS-II**), April 2021

Prefetching in Hybrid Main Memory Systems

Subisha V, Varun Gohil, Nisarg Ujjainkar, Manu Awasthi

12th USENIX Workshop on Hot Topics in Storage and File Systems (**HotStorage**) 2020

[Reproducibility Report] One ticket to win them all: generalizing lottery ticket initializations across datasets and optimizers

Varun Gohil*, S. Deepak Narayanan*, Atishay Jain*

NeurIPS Reproducibility Challenge, **ReScience C**, 2020.

Effect of Feature Hashing on Fair Classification

Ritik Dutta*, Varun Gohil*, Atishay Jain*

Young Researchers' Symposium, ACM India Joint International Conference on Data Science & Management of Data, (**CODS-COMADS**) 2020

FAB: Framework for Analyzing Benchmarks

Varun Gohil*, Shreyas Singh*, Manu Awasthi

Work in Progress Track, 10th International Conference on Performance Engineering (**ICPE**) 2019

META: Memory Exploration Tool for Android Devices

Nisarg Parikh, Varun Gohil, Manu Awasthi

Poster Track, 24th International Conference on Mobile Computing and Networking (**MobiCom**) 2018

EXPERIENCE

Student Researcher, Google

June 2025 - August 2025

Hosts : Suvinay Subramanian, Kavya Sreedhar, Amir Yazdanbakhsh

Part-time Student Researcher, Google

June 2024 - August 2024

Hosts : Sundar Dev, David Lo, Gaurang Upasani

Research Intern, Google

June 2023 - August 2023

Hosts : Sundar Dev, David Lo, Gaurang Upasani

Research Intern, Google

June 2022 - August 2022

Hosts : Sundar Dev, David Lo

Graduate Researcher, Cornell University

August 2021 - May 2022

Advisor : Prof. Christina Delimitrou

Research Fellow, Ashoka University

August 2020 - July 2021

Advisor : Prof. Manu Awasthi

Visiting Scholar, University of Utah

May 2019 - July 2019

Advisor : Prof. Rajeev Balasubramanian

Summer Research Intern, IIT Gandhinagar

May 2018 - July 2018

Advisor : Prof. Manu Awasthi

SERVICE

· Program Committee, Reviewer:

- ML for Systems workshop, NeurIPS

2025, 2024

· **Mentoring:**

- Nevena Stojkovic MIT UROP 2025-Present
Project : Uncertainty-aware resource management for microservices
- Angel Cervantes MIT UROP 2025-Present
Project : Benchmarking Compound-AI applications
- Paramuth Samuthrsindh MIT UROP 2025-Present
Project : Benchmarking Compound-AI applications
- Alan Song MIT PRIMES 2023
Project : Reinforcement learning approaches for serverless autoscaling
Selected as Regeneron Science Talent Search (STS) scholar
- Evan Ning MIT PRIMES 2023
Project : Reinforcement learning approaches for serverless autoscaling

· **Teaching Assistant:**

- 6.S984 Datacenter Computing, MIT Spring 2026
- 6.1910 Computation Structures, MIT Fall 2025, 2024
- Machine Learning, IIT Gandhinagar Spring 2020
- Operating Systems, IIT Gandhinagar Fall 2019

· **Organization:**

- Grad School Application Tweet Storm with Students@Systems 2022
- Pre-conference volunteer for ICLR 2020
- Tutorial on DRAM timing parameters, Computer Architecture Winter School (CAWS) 2020