

# Vaibhav Bhosale

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## EDUCATION

- 2021–2026 **Ph.D.**, *Computer Science*, Georgia Institute of Technology, Atlanta, United States.  
Advisors: Dr. Ada Gavrilovska, Dr. Ketan Bhardwaj
- 2019–2021 **M.S.**, *Computer Science*, Georgia Institute of Technology, Atlanta, United States.
- 2013–2017 **B.Tech. with Honors**, *Computer Science & Engineering*, Indian Institute of Technology, Bombay, Mumbai, India.

## PUBLICATIONS

- **Krios: Scheduling Abstractions and Mechanisms for Enabling a LEO Compute Cloud.** [Vaibhav Bhosale](#), Ada Gavrilovska, Ketan Bhardwaj. In Proceedings of the 2024 ACM Symposium on Cloud Computing (SoCC 2024), 2024.  
*Awarded Best Paper*
- **A Characterization of Route Variability in LEO Satellite Networks.** [Vaibhav Bhosale](#), Ahmed Saeed, Ketan Bhardwaj, Ada Gavrilovska. In *Passive and Active Measurement Conference (PAM 2023)*, 2023.  
Invited presentation at IETF/IRTF Measurement and Analysis for Protocols Research Group (MAPRG)
- **PaddleSats: Attitude Control and Station-Keeping for Ultra-Low Density SSP Satellites.** [Vaibhav Bhosale](#), Jonathan Dolan, Grishma Kalepu, Deeksha Manjunath, Gregory Durgin. In IEEE International Conference on Wireless for Space and Extreme Environments (WiSEE 2023), 2023.  
*Awarded Best Paper*
- **Toward Loosely Coupled Orchestration for the LEO Satellite Edge.** [Vaibhav Bhosale](#), Ketan Bhardwaj, Ada Gavrilovska. In *3<sup>rd</sup> USENIX Workshop on Hot Topics in Edge Computing (HotEdge 2020)*, 2020.
- **Don't Let Your LEO Edge Fade at Night.** [Vaibhav Bhosale](#), Ketan Bhardwaj, Ada Gavrilovska. In *1<sup>st</sup> Workshop on Hot Topics in Systems Infrastructure (HotInfra 2023)*, 2023 [Colocated with ISCA 2023].
- **Astrolabe: Modeling RTT Variability in LEO Networks.** [Vaibhav Bhosale](#), Ketan Bhardwaj, Ahmed Saeed. In *1<sup>st</sup> ACM Workshop on LEO Networking and Communication (LEO-NET 2023)*, 2023 [Colocated with Mobicom 2023].
- **Efficient Cross-Frequency Beam Prediction in 6G Wireless Using Time Series Data.** [Vaibhav Bhosale](#), Navrati Saxena, Ketan Bhardwaj, Ada Gavrilovska, Abhishek Roy. In *IEEE 2024 International Symposium on Networks, Computers and Communications (ISNCC'24)*.

## PATENTS

- **Techniques for Overriding Libraries for Workloads in a Cloud-Computing Environment.** US Patent 11838354 (2023)
- **Spatial and Frequency Domain Beam Management Using Time Series Information.** US Patent 18369488 (2024)

## SERVICE

- **Journal Reviews:** 2024 IEEE Transactions on Parallel and Distributed Systems, 2023 IEEE/ACM Transactions on Networking, 2022 IEEE JSAC SI on Multi-Tier Computing for Next Generation Wireless Networks
- **Conference Reviews:** 2024 IEEE International Conference on Communications (ICC)
- **Artifact Evaluation Committee:** SOSP 2024, Eurosys 2025, OSDI 2023, ATC 2023
- **Shadow PC:** Eurosys 2024

## AWARDS AND ACADEMIC ACHIEVEMENTS

- Finalist at Qualcomm Innovation Fellowship (45 out of ~200). (2023)
- Finalist (top 5) at Microsoft One Week Hackathon in the Bengaluru Science Fair for a Speech-based Drawing Assistant (2018)
- Runners up at Mimamsa, the largest collegiate science quiz in India conducted by IISER Pune. (2016)
- Winner at Bazinga Mathematics, the largest Mathematics quiz at IIT Bombay (80 teams participated). (2016)
- Secured **All India Rank 161** in JEE-Advanced out of 1.5 million students. (2013)
- Amongst **top 1%** in the National Standard Examinations in Physics and Astronomy. (2013)
- Awarded **National Talent Search Exam** scholarship conducted by Government of India (selection ratio  $\approx 0.1\%$ ). (2009)

## PROFESSIONAL EXPERIENCE

- Summer 2024 **Research Intern**, *Microsoft Research*, Future of Scalable Software Engineering (FOSSE), Mentors: Dr. Peter Bodik, Iker Llorens.
- Summer 2022 **5G Research Intern**, *Mediatek Inc.*, Advanced Communication Technology, Mentor: Dr. Abhishek Roy.
- Summer 2021 **Research Intern**, *Microsoft Inc.*, Azure for Operators (AfO), Mentor: Dr. Sanjeev Mehrotra.
- Summer 2020 **Senior Backend Developer Intern**, *IBM Inc.*, Cloud and Cognitive Services.
- 2017–2019 **Software Engineer**, *Microsoft India Development Center*, Bengaluru, Outlook Rest API.

Summer 2016 **Software Development Intern**, *Microsoft India Development Center*, Bengaluru.

## TEACHING EXPERIENCE

- **Head Teaching Assistant:** Artificial Intelligence (Fall 2020, Spring 2021)  
Led a team of 21 Graduate Teaching Assistants, overseeing the planning and execution of course structure, assignments, examinations, and enhancing the overall student experience.
- **Graduate Teaching Assistant:** Distributed Computing (Fall 2023, Fall 2021), Artificial Intelligence (Fall 2019, Spring 2020)
- **Undergraduate Teaching Assistant:** Artificial Intelligence (Spring 2017), Computer Architecture (Autumn 2016), Computer Programming & Utilization (Summer 2017)

## LEADERSHIP ROLES

- 2023-24 **School of Computer Science Graduate Student Association**, *President*.
- Led an executive team comprising of 8 grad students overseeing academic, welfare, administration, and social activities for the graduate student body, while managing a budget exceeding \$50,000
- 2022-23 **School of Computer Science Graduate Student Association**, *Finance Chair*.
- 2016-17 **Students' Technical Activities Body**, *Undergraduate Events Nominee*.
- Led a 3-tier team consisting of 20 managers and 100+ volunteers to handle 200+ events with a INR 1.5M budget for 7000+ students.
- 2015-16 **Maths & Physics Club**, *Manager*.