

Manish Shetty

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Research Interests

Thesis Scaling Environments & Verifiers for Software Engineering Agents.
Topics Frontier Evals, Agents, AI for Software Engineering.

Education

Aug'22–May'26 **University of California, Berkeley,**
Ph.D. in Computer Science.
GPA – 3.78/4.0, Committee: [Koushik Sen](#), [Ion Stoica](#), [Joseph Gonzalez](#), [Vincent Hellendoorn](#)
Aug'16–May'20 **PES University, Bangalore,**
B.Tech in Computer Science and Engineering (Honors).
GPA – 9.51/10.0, Advisor: [Gowri Srinivasa](#)

Publications

- ICLR' 26 **Terminal-Bench: Benchmarking Agents on Hard, Realistic CLI Tasks.**
Mike A. Merrill, Alexander G. Shaw, ..., [Manish Shetty](#), ..., Ludwig Schmidt
International Conference on Learning Representations, 2026
- NeurIPS' 25 **GSO: Challenging Software Optimization Tasks for Evaluating SWE-Agents.**
[Manish Shetty](#), Naman Jain, Jinjian Liu, Vijay Kethanaboyina, Koushik Sen, Ion Stoica
Annual Conference on Neural Information Processing Systems, 2025
- COLM' 25 **R2E-Gym: Procedural Environment Generation and Training for SWE Agents.**
Naman Jain*, Jaskirat Singh*, [Manish Shetty](#), Tianjun Zhang, Liang Zheng, Koushik Sen
Conference on Language Modeling, 2025
- ICML' 25 **Challenges and Paths Towards AI for Software Engineering (Position).**
Alex Gu, Naman Jain*, Wen-Ding Li*, [Manish Shetty](#)*, Yijia Shao, Ziyang Li, Diyi Yang, Kevin Ellis, Koushik Sen, Armando Solar-Lezama
International Conference on Machine Learning, 2025
- LLM4Code' 25 **Syzygy: Dual Code-Test C to Rust Translation using LLMs and Dynamic Analysis.**
[Manish Shetty](#)*, Naman Jain*, Adwait Godbole*, Sanjit Seshia, Koushik Sen
LLM4Code Workshop @ ICSE 2025
- MLSys' 25 **AIOpsLab: A Holistic Framework to Evaluate AI Agents for Autonomous Clouds.**
Yinfang Chen, [Manish Shetty](#), Gagan Somashekar, Minghua Ma, Yogesh Simmhan, Jonathan Mace, Chetan Bansal, Rujia Wang, and Saravan Rajmohan
Annual Conference on Machine Learning and Systems, 2025
- SoCC' 25 **Building AI Agents for Autonomous Clouds: Challenges and Design Principles.**
[Manish Shetty](#), Yinfang Chen, Gagan Somashekar, Minghua Ma., Yogesh Simmhan, Xuchao Zhang, Jonathan Mace, Pedro Las-Casas, Shachee Gupta, Suman Nath, Chetan Bansal, Saravan Rajmohan
ACM Symposium on Cloud Computing, 2025
- ICML' 24 **R2E: Turning any GitHub Repository into a Programming Agent Environment.**
[Manish Shetty](#)*, Naman Jain*, Tianjun Zhang, King Han, Koushik Sen, Ion Stoica
International Conference on Machine Learning, 2024
LLMAgents Workshop @ ICLR 2024
- Tech Report **LM Assertions: Computational Constraints for Self-Refining LM Pipelines.**
Arnav Singhvi*, [Manish Shetty](#)*, Shangyin Tan*, Chris Potts, Koushik Sen, M. Zaharia, O. Khattab

Tech Report **CodeScholar: Growing Idiomatic Code Examples.**

[Manish Shetty](#), Koushik Sen, Ion Stoica

SoCC' 22 **How to Fight Production Incidents? A Study on a Large-scale Cloud Service.**

Supriyo Ghosh, [Manish Shetty](#), Chetan Bansal, Suman Nath

ACM Symposium on Cloud Computing, 2022

Best Paper Award 🏆

FSE' 22 **AutoTSG: Learning and Synthesis for Incident Troubleshooting.**

[Manish Shetty](#), Chetan Bansal, Sai Upadhyayula, Arjun Radhakrishna, Anurag Gupta

Foundations of Software Engineering (Industry Track), 2022

ICSE' 22 **DeepAnalyze: Learning to Localize Crashes at Scale.**

[Manish Shetty](#), Chetan Bansal, Suman Nath, Sean Bowles, Henry Wang, Ozgur Arman, Siamak Ahari

International Conference on Software Engineering, 2022

ICSE' 21 **Neural Knowledge Extraction from Cloud Service Incidents.**

[Manish Shetty](#), Chetan Bansal, Sumit Kumar, Nikitha Rao, Nachiappan Nagappan and Tom Zimmermann

International Conference on Software Engineering - SEIP, 2021

Nominated for the IEEE Software Distinguished Paper Award (5/41) 🏆

Featured in [VentureBeat](#), [TechZine](#), etc. 🏆

Awards

2025 **\$75K Grant for improving SWE Benchmarks**, *Google DeepMind*.

2024 **Tong Leong Lim Pre-Doctoral Prize**, *EECS Department, UC Berkeley*.

2024 **\$750K Grant for building SWE Benchmarks**, *Coefficient Giving (OpenPhilanthropy)*.

2024 **Outstanding Graduate Student Instructor Award**, *EECS Department, UC Berkeley*.

2016-2020 **Prof CNR Rao Scholarship**, *CS Department, PES University*, (6x recipient).

2020 **Dr. MRD Merit Scholarship**, *CS Department, PES University*.

Experience

May'25–Aug'25 **Google DeepMind**, *Research Intern*, Mountain View, California.

Topic: Post-training (RL) for Gemini's computer-use capabilities.

May'24–Jul'24 **Microsoft Research**, *Research Intern*, Redmond, Seattle.

Topic: Frontier evals for LLMs on software deployment tasks.

Jul'20–Jul'22 **Microsoft Research**, *Research Fellow*, Bangalore, India.

Topic: Scaling multi-task training for software crash analysis.

Jan'20–Jun'20 **Microsoft Research**, *Research Intern*, Bangalore, India.

Topic: Training custom named-entity recognizers.

Jul'19–Jun'20 **PES Center for Pattern Recognition**, *Research Assistant*, Bangalore, India.

Topic: ML models for sepsis prediction.

Academic Service

ICML **2025 (PC)**.

ICLR **2022 (PC)**, **2025 (PC)**.

NeurIPS **2024 (PC)**, **2025 (PC)**.

PLDI **2024 (Sub-Reviewer)**, **2024 (AE)**.

SPLASH **2022 (Volunteer)**.

ASE **2024 (PC)**.

ISSTA **2022 (Sub-Reviewer)**, **2023 (Sub-Reviewer)**.

MSR **2022 (Shadow PC)**, **2021 (Shadow PC)**.