

Using AI for Code with Trust



Singapore Manifesto on AI-Driven Innovations for Code

January 19, 2026

2026

Introduction

Generative AI is rapidly changing the landscape of software engineering. However, a key challenge remains - how can we incorporate AI as a reliable part of next-generation development? At the Singapore Manifesto, invitees from all over the world, working in academia, industry, and government, come together in Singapore to discuss the opportunities and risks of this technological change. Join us to map the future of trustworthy software development with AI.

Meet the Organizers



Abhik Roychoudhury

*Provost's Chair Professor, NUS
Senior Advisor, Sonar*

Abhik Roychoudhury is Provost's Chair Professor of Computer Science at the National University of Singapore (NUS), where he leads a research team on Trustworthy and Secure Software (TSS). He is Senior Advisor at Sonar, subsequent to the acquisition of his spinoff AutoCodeRover on AI agents for coding. He received his PhD in Computer Science from the Stony Brook University in 2000, and has been a faculty member at NUS School of Computing since 2001. Abhik's group at NUS has focused on symbolic program analysis, along with applications of program analysis to areas such as computer security, agentic AI or cyber-physical systems. These works have been honored with various awards including an International Conference on Software Engineering (ICSE) Most Influential Paper Award (Test-of-time award) for (symbolic analysis based) program repair, IEEE New Directions Award 2022 (jointly with Cristian Cadar) for contributions to symbolic execution.

Abhik was the inaugural recipient of the NUS Outstanding Graduate Mentor Award 2024. Doctoral students graduated from his research team have taken up faculty positions in many top academic institutions. He has served the software engineering research community in various capacities including as chair of the major conferences of the field, ICSE (in 2024) and FSE (in 2022). Currently, he serves as chair of the FSE steering committee. He is a member of the editorial board of Communications of the ACM. He is the current Editor-in-Chief of the ACM Transactions on Software Engineering and Methodology (TOSEM). Abhik is a Fellow of the ACM, recognized for contributions to automated program repair and fuzz testing.



Baishakhi Ray

Associate Professor, Columbia University

Baishakhi Ray is an Associate Professor in the Department of Computer Science at Columbia University in New York, USA. Her research lies at the intersection of Artificial Intelligence and Software Engineering, with a particular focus on developing intelligent, trustworthy tools for improving software reliability, security, and developer productivity.

Dr. Ray's work has been recognized with several honors, including the IEEE TCSE Rising Star Award, NSF CAREER Award, IBM, and VMWare Faculty Awards. Her publications have received multiple Distinguished Paper Awards at top venues, the ICSME Test of Time Award, and have been featured in CACM Research Highlights, reflecting the broad impact of her research on both the academic and industrial communities. She also serves as an Amazon Scholar, collaborating with the Amazon Q Agentic AI team to build intelligent developer agents grounded in real-world software engineering practice.

All information about the event, an updated list of attendees, and the agenda can be found on our website, which can be accessed using the QR code below or the following URL
<https://spartan-nus.github.io/ai4code-roundtable>



Confirmed Attendees

The list of confirmed attendees continues to grow.
Please visit our website for the latest updates.



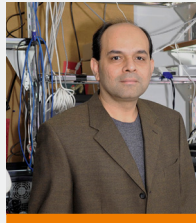
Aditya Kanade

Senior Principal
Researcher
Microsoft Research India



Anup Kumar

Distinguished Engineer
and
Head Client Engineering
IBM Asia Pacific



Atif Memon

Distinguished Engineer
Apple



**Behrooz
Omidvar-Tehrani**

Principal Scientist
Microsoft



Cho Chia Yuan

Dy Director
*Ministry of Defence,
Singapore*



Corina Pasareanu

Principal Scientist,
Technical Professional Leader
*Carnegie Mellon University,
NASA Ames Research Center*



Daniel Dahlmeier

Chief Data Scientist
SAP Artificial Intelligence



David Lo

OUB Chair Professor
*Singapore Management
University*



Gang Lee

CEO, Co-founder
ELGO AI



Haifeng Ruan

PhD Student, Co-founder
*AutoCodeRover
National University of
Singapore*



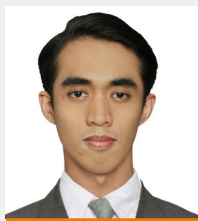
Harry Wang

Chief Growth Officer
Sonar



Hsiao Ming Chia

Director (Core
Engineering Products)
GovTech Singapore



**Imam Nur Bani
Yusuf**

Postdoctoral Researcher
*National University of
Singapore*



Jeffrey Salleh

Director,
Cloud Engineering
Oracle



Karlina Tjoa

Lead Software Engineer
MoHT Singapore



Martin Rinard

Professor,
*Massachusetts
Institute of
Technology*



**Murali Krishna
Ramanathan**

Principal Applied Scientist
AWS



Neha Rungta

Applied Science Director
AWS



**Raveendra Kumar
Medicherla**

Principal Scientist
Tata Consultancy Services



Robert Morris

Chief Technology
Strategist
MoHT Singapore



Satish Chandra

Principal Engineer
*Machine Learning
for Developer
Productivity, Google*



Shaowei Ying

Chief Scientist
NCS, Singapore



Shweta Garg

Senior Applied Scientist
AWS AI Labs



Sian Wee Tan

Senior Vice President
(Innovation and Enterprise)
National University of Singapore



Sungmin Kang

Postdoctoral Researcher
*National University of
Singapore*



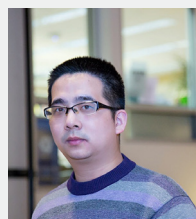
Varun Srivastava

Engineering Leader -
Search and AI
Atlassian



Volkan Sevindik

Chief Technology Officer
Starhub



Xin Xia

Qiushi Distinguished
Professor
Zhejiang University



Yanyan Hu

Deputy Director -
Architecture and
Development
MoHT Singapore



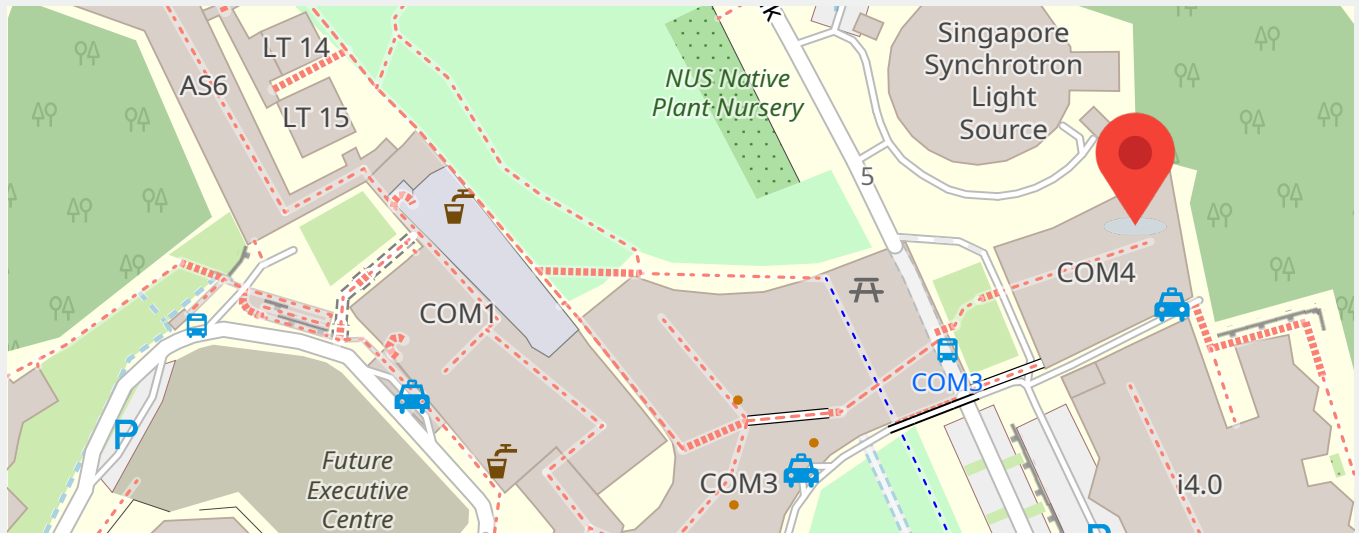
Yuntong Zhang

PhD Student, Co-founder
*AutoCodeRover
National University of Singapore*

Venue

The event will be held on **January 19, 2026**, at the **Information Systems and Analytics Teaching Lab 2 (COM4-02-01)**

<https://maps.app.goo.gl/rQHKURhwnh9NNiix5>



Tentative Agenda

Time	Title
9:00 AM	Registration
9:30 AM	Welcome and Presentation by Organizers
10:00 AM	Industry Sharing: Talk on Trusted Technologies
10:30 AM	Industry Sharing from Singapore/USA on AI for Code: 3-4 talks planned
12:00 PM	<i>Lunch Break</i>
1:00 PM	Industry Roundtable in Groups
2:30 PM	Summary of results of roundtable
3:30 PM	<i>Tea Break</i>
4:00 PM	Manifesto Discussions <i>Abhik Roychoudury and Baishakhi Ray with all</i>
5:00 PM	Summary <i>Plan for follow-up meetings in New York and Bay Area</i> <i>Abhik Roychoudhury</i>
5:30 PM	Closing

For further inquiries or assistance, kindly contact **Dr. Sungmin KANG** at the following email address: sungmin@nus.edu.sg