

# Mayank Singh

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## Education

<b>University of Arizona, College of Science</b> Ph.D., Computer Science	Tucson, AZ, USA Aug. 2023 – Present
<b>New York University, Courant Institute of Mathematical Sciences (CIMS)</b> M.S., Computer Science	New York, NY, USA Sept. 2014 – May 2016
<b>Birla Institute of Technology and Science (BITS), Pilani – Goa Campus</b> B.E. (Hons.), Computer Science	Zuarinagar, GA, India Aug. 2009 – Aug. 2013

## Recent Work Experience

<b>University of Arizona</b> <i>Research Assistant, Department of Computer Science</i>	Tucson, AZ, USA Aug. 2023 – Present
• Conducting research on reasoning models and multi-agent systems under Prof. Eduardo Blanco.	
<b>ServiceNow, Inc.</b> <i>Senior Research Scientist Intern</i>	Kirkland, WA, USA May 2025 – Aug. 2025
• Conducted research within the Core LLM team on better approaches to discovering multi-agent systems.	
<b>Maplebear, Inc. (Instacart)</b> <i>Senior Machine Learning Engineer</i>	San Francisco, CA, USA Apr. 2023 – Aug. 2023
• Developed incentive optimization algorithms for shoppers during high-demand periods while working in the Availability & Coordination team.	
<b>Meta Platforms, Inc. (Facebook)</b> <i>Senior Software Engineer/Machine Learning Engineer</i>	Menlo Park, CA, USA June 2016 – Jan. 2023
• Led the relevance and integrity areas in the Video Search Ranking team to improve the relevance of video search results to user queries and reduce the prevalence of inappropriate content.	
• Created and improved product features for Facebook Search as part of the Content Search Product team.	
• Worked on the Newsfeed Recommendations team to deliver better Reels recommendations to users.	

## Publications

- Mayank Singh, Vikas Yadav, Shiva Krishna Reddy Malay, Shravan Nayak, Sai Rajeswar, Sathwik Tejaswi Madhusudhan, and Eduardo Blanco. 2025. **Grammar Search for Multi-Agent Systems**. Under review at ACL Rolling Review (October 2025).
- Mayank Singh and Eduardo Blanco. 2024. **Learning to Generate Rules for Realistic Few-Shot Relation Classification: An Encoder-Decoder Approach**. In Findings of the Association for Computational Linguistics: EMNLP 2024, Association for Computational Linguistics, Miami, USA. [Link](#)
- Gajamohan Mohanarajah, Vladyslav Usenko, Mayank Singh, Raffaello D'Andrea, and Markus Waibel. 2015. **Cloud-Based Collaborative 3D Mapping in Real-Time with Low-Cost Robots**. IEEE Transactions on Automation Science and Engineering 12, 2 (2015), 423 – 431. [Link](#)

## Additional Work Experience

<b>Facebook, Inc.</b> <i>Software Engineer Intern, Video Ads</i>	Menlo Park, CA, USA June 2015 – Aug. 2015
• Added support for creating Video Ads using Light-Weight Interfaces in Facebook Pages.	

**Cisco Systems (India) Private Limited***Software Engineer I*

Bengaluru, KA, India

Aug. 2013 – Aug. 2014

- Contributed to implementing IP tunneling, key exchange, and cryptographic algorithms for the Cisco IOS and IOS-XR network operating systems.

**ETH Zurich***Research Intern*

Zurich, ZH, Switzerland

Jan. 2013 – June 2013

- Conducted Cloud Robotics research under Dr. Gajamohan Mohanarajah and Prof. Raffaello D'Andrea at the Institute of Dynamic Systems and Control.

**Python Software Foundation***Google Summer of Code*

Remote

Summers 2011 &amp; 2012

- Extended hardware support in PySoy, a Linux game engine, by building a Wiimote IR pointer driver and a Bluetooth plugin for PlayStation 3 controllers.

**Other Experience**

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- Earned a certificate in Statistics and Data Science from the MITx MicroMasters Program in December 2020.
- Teaching Assistant for Deep Learning (Spring 2016) and Financial Software Projects (Fall 2015) at New York University.
- Mentor for Google Summer of Code (2015) and Google Code-in (2012) with the CopyLeft Games Group.
- Represented New York University at the ACM ICPC Greater NY Regionals in 2014.

**Useful Links****LinkedIn:** [linkedin.com/in/mayanks43/](https://linkedin.com/in/mayanks43/)**GitHub:** [github.com/mayanks43](https://github.com/mayanks43)