

Divyanshu Saxena

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Education

Ph.D., Computer Sciences | The University of Texas at Austin | Advisor: [Prof. Aditya Akella](#) 2021–Present
B.Tech, CSE | Indian Institute of Technology, Delhi 2016–2020

Publications

Research Interests: Microservices and Cloud Deployments, ML for Systems

Papers

- **Divyanshu Saxena**, William Zhang, Shankara Pailoor, Isil Dillig, and Aditya Akella. *Copper and Wire: Bridging Expressiveness and Performance for Service Mesh Policies*. In **ASPLOS'25**. *Also appeared as a poster in NSDI'23*.
- Tao Ji, **Divyanshu Saxena**, Brent E. Stephens, and Aditya Akella. 2023. *Yama: Providing Performance Isolation for Black-Box Offloads*. In **SoCC'23**.
- **Divyanshu Saxena**, Tao Ji, Arjun Singhvi, Junaid Khalid, and Aditya Akella. *Memory deduplication for serverless computing with Medes*. In **EuroSys'22**. *Also appeared as an invited paper in SIGOPS Operating Systems Review*.

Workshop and Short Papers

- **Divyanshu Saxena**, Nihal Sharma, Donghyun Kim, Rohit Dwivedula, Jiayi Chen, Chenxi Yang, Sriram Ravula, Zichao Hu, Aditya Akella, et. al. 2023. *On a Foundation Model for Operating Systems*. In **MLSys at NeurIPS'23**.
- **Divyanshu Saxena**, William Zhang, Madhav Tummala, Saksham Goel, and Aditya Akella. 2023. *Invited Paper: Towards Efficient Microservice Communication*. In **ApPLIED at PODC '23**.

Pre-prints

- Chenxi Yang, **Divyanshu Saxena**, Rohit Dwivedula, Kshiteej Mahajan, Swarat Chaudhuri, and Aditya Akella. 2024. *C3: Learning Congestion Controllers with Formal Certificates*.
- Jeremy Carleton, Prathik Vijaykumar, **Divyanshu Saxena**, Dheeraj Narasimha, Srinivas Shakkottai, and Aditya Akella. 2024. *CONGO: Compressive Online Gradient Optimization with Application to Microservices Management*.
- Le Xu, **Divyanshu Saxena**, Neeraja J. Yadwadkar, Aditya Akella, and Indranil Gupta. 2023. *Dirigo: Self-scaling Stateful Actors For Serverless Real-time Data Processing*.

Professional Experience

Microsoft Research | Research Intern at *Networking Research Group* May 2022 - Aug 2022
Joint Seat Allocation Authority (JoSAA) | Software Intern Feb 2020 - Oct 2020
Indian Institute of Science, Bangalore | Research Intern with *Prof. Yogesh Simmhan* Jul 2020 - Sep 2020
Cohesity | Member of Technical Staff Intern May 2019 - Jul 2019
National University of Singapore | Research Intern with *Prof. Andrew Lim* May 2018 - Jul 2018

Scholastic Achievements

- Awarded a **Departmental Scholarship** of USD3000 for the academic session 2020-21 at the UW-Madison.
- Secured **All India Rank 64** in Joint Entrance Exam Advanced - 2016 among 1.5 million applicants.
- Secured **All India Rank 61** in Kishore Vaigyanik Protasahan Yojana (KVPY) - 2015 conducted by IISc Bangalore.
- Secured **All India Rank 1** in FIITJEE Talent Reward Examination (FTRE) - 2014 conducted by FIITJEE Ltd.
- Conferred a nine-year scholarship on qualifying **National Talent Search Examination** (2012), conducted by NCERT.

Teaching Experience

Mentor | Directed Reading Program (DiRP), Emerging Cloud Infrastructure Fall 2023
Teaching Assistant | Programming III, at UW-Madison Fall 2020
Teaching Assistant | Artificial Intelligence, at IIT Delhi Fall 2019

Volunteering Experience

Student Volunteer | HotNets'22 hosted in Austin
Artifact Evaluation Committee | OSDI+ATC'22, SOSP'23