

# Divyanshu Saxena

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## Education

**Ph.D., Computer Sciences** | The University of Texas at Austin | Advisor: [Prof. Aditya Akella](#) 2021–26 (Exp.)  
**Ph.D., Computer Sciences** | University of Wisconsin-Madison | Advisor: [Prof. Aditya Akella](#) 2020–21 (Transferred)  
**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*.
- Jeremy Carleton, Prathik Vijaykumar, **Divyanshu Saxena**, Dheeraj Narasimha, Srinivas Shakkottai, and Aditya Akella. 2024. *CONGO: Compressive Online Gradient Optimization*. In **ICLR'25**.
- 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*.
- 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

<b>Microsoft Research</b>   Research Intern at <i>Networking Research Group</i>	May 2022 - Aug 2022
<b>Joint Seat Allocation Authority (JoSAA)</b>   Software Intern	Feb 2020 - Oct 2020
<b>Indian Institute of Science, Bangalore</b>   Research Intern with <i>Prof. Yogesh Simmhan</i>	Jul 2020 - Sep 2020
<b>Cohesity</b>   Member of Technical Staff Intern	May 2019 - Jul 2019
<b>National University of Singapore</b>   Research Intern with <i>Prof. Andrew Lim</i>	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.
- Conferred a nine-year scholarship on qualifying **National Talent Search Examination** (2012), conducted by NCERT.

## Teaching Experience

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

## Volunteering Experience

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