

Manasvini Sethuraman

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🌐 Manasvini Sethuraman

🌐 <https://Manasvini.github.io>

Education

- 2019 – 2024 (Expected) 📖 **Ph.D. Computer Science** Georgia Institute of Technology
GPA: 3.86/4.00
- 2014 – 2016 📖 **M.S. in Computer Science** Georgia Institute of Technology
GPA: 3.78/4
- 2010 – 2014 📖 **B.E. Computer Science and Engineering** Anna University
GPA: 8.91 /10

Experience



- 2019 – Current 📖 **Graduate Research Assistant**, Georgia Tech.
- Working on projects related to bandwidth aware orchestration of applications at the edge of the network.
- Summer 2023 📖 **Ph.D. Software Engineering Intern** Google.
- Worked on adding dictionary based compression to allow small blocks in BigTable's on-disk data to be stored more efficiently.
- 2020, 2021 📖 **Software Engineering Intern**, Bloomberg L.P.
- Designed a library to compare data from four Mutual Fund Holdings databases and publish results.
- Worked on financial named entity recognition for Equities Research.
- 2016 — 2019 📖 **Software Developer**, Bloomberg L.P.
- Migrated existing company filings in several local *Oracle* databases to a single cluster configuration in *PostgreSQL*.
- Built a pub/sub system to ensure cache coherence across machines when a user's privileges are updated on one machine.
- Summer 2015 📖 **Technical Intern**, Yahoo! Inc.
- Worked on load testing and performance measurement of Ads API's using *Gatling*.
- Constructed a pipeline to log and visualize the performance of Ads UI using *Splunk dashboards*.

Skills




- Coding 📖 C++, Python, Go
- Tools/Libraries 📖 GTest, Pandas, gRPC, Kubernetes
- Languages 📖 English, Tamil, Hindi.

Publications



- 1 M. Sethuraman, Z. S. Bischof, and A. Dainotti, "Towards Improving Outage Detection with Multiple Probing Protocols," in *Passive and Active Measurement 2024 (to appear)*, 2024.
- 2 M. Sethuraman, Z. S. Bischof, and A. Dainotti, "Poster: Analysis of IPv4 Address Space Utilization with ANT ISI dataset and Censys," in *ACM Internet Measurement Conference (IMC '22)*, 2022. 🌐 DOI: 10.1145/3517745.3563018.
- 3 M. Sethuraman, A. Sarma, A. Bauskar, A. Dhekne, and U. Ramachandran, "Clairvoyantedge: Prescient prefetching of on-demand video at the edge of the network," in *IEEE/ACM 7th Symposium on Edge Computing (SEC'22)*, 2022. 🌐 DOI: 10.1109/SEC54971.2022.00010.

- 4 M. Sethuraman, A. Sarma, A. Dhekne, and U. Ramachandran, "Foresight: Planning for Spatial and Temporal Variations in Bandwidth for Streaming Services on Mobile Devices," in *12th ACM Multimedia Systems Conference (MMSys '21)*, 2021.  DOI: 10.1145/3458305.3463384.
- 5 M. Sethuraman, R. E. Grinter, and E. Zegura, "Poster: Approaches to Understanding Indigenous Content Production on Wikipedia," in *3rd ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS '20)*, 2020.  DOI: 10.1145/3378393.3402249.

Teaching

- Fall '22, 2020  **Teaching Assistant**, Advanced Operating Systems (CS6210)
- Spring '16  **Teaching Assistant**, Machine Learning (CS7641/CS4641)
- Fall '15  **Teaching Assistant**, Computability and Algorithms (CS6505)

Achievements

- 2011—2014  **Merit Scholarship**, For outstanding academic performance
- 2015  **Winner, Yahoo! Hackday**, For building an Android application to display information about cities appearing in email text