

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

Publications

- 1 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.
- 2 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.
- 3 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.
- 4 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.

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.

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