

Anish Reddy Ellore

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EDUCATION

- **Virginia Tech** Blacksburg, VA
Master of Science in Computer Science; Fall 21 Courses: Operating Systems, Data Analytics Aug. 2021 – Present
- **Birla Institute of Technology and Science Pilani** Hyderabad, India
Bachelor of Engineering in Computer Science; GPA: 8.14/10.0 Aug. 2016 – July. 2020

EXPERIENCE

- **OPPO Research and Development Centre** Hyderabad, India
Software Engineer Sept 2020 - July 2021
 - Fixed critical Android R OS upgrade bugs, solved WLAN Power Issues, improved WIFI, and Hotspot stability
 - Collaborated with Qualcomm and Chinese counterpart teams on a day to day basis for the job
- **Publicis Sapient** Bangalore, India
Software Engineering Intern [slides] May 2019 - July 2019
 - Developed a near real-time stream processing application to ingest the data and generate KPIs
 - Predicted customer seasonal purchase patterns by merging our KPIs with publicly available census data, leading to interesting holiday purchase pattern discoveries. For this initiative, company leaders commended our team
- **PASS Consulting** Hyderabad, India
Software Engineering Intern [report] May 2018 - July 2018
 - Developed a python application to visualize water tanks dependencies and optimize water distribution schedule. This project helped to improve water management in the State of Telangana

PROJECTS

- **Tasks Android Application for Location based Notifications:** [code]
 - Implemented location searching and picking for the user tasks as part of OPPO's internal hackathon
 - This location feature can be used to intelligently notify user tasks based on their vicinity to the location
- **Performance Analysis of TCP variants in Congested Networks:** [code]
 - Designed an environment with an asynchronous-event-driven server and clients to simulate network congestion
 - In our results, we found TCP reno to be performing well under different types of network congestion
- **Time Cards Management System | Software Engineering:** [code]
 - Created a web application to help companies track employees' time cards, leaves and generate salaries

PUBLICATIONS AND PRESENTATIONS

- A. Kasturi, **A. R. Ellore**, and C. Hota, Fusion Learning: A One shot Federated Learning, International Conference in Computational Sciences, Amsterdam, Netherlands, June 2020. (Core A) [pdf]
- A. Kasturi, **A. R. Ellore**, P. Saxena, and C. Hota, Hybrid Fusion Learning: A Hierarchical Learning Model for Distributed Systems, EMDL@MobiCom 2020, ACM, London, Sept 2020. (Core A*) [pdf]
- **A. R. Ellore**, S. Mishra, and C. Hota, Sequential Anomaly Detection using Feedback and Prioritized Experience Replay, International Conference on Network and System Security, Australia, Nov 2020. (Core B) [pdf] [presentation]
- **A. R. Ellore**, A. Kasturi, P. Saxena, and C. Hota, OSGAN: One Shot Distributed Learning using General Adversarial Networks. (Conference paper in preparation) [code]

SKILLS AND INTERESTS

- **Languages:** C++, Java, Python, Scala, SQL
- **Technologies:** Android, Spark Structured Streaming, Tensorflow, Git, Flask, Azure Event Hub
- **Courses:** Operating Systems, Machine Learning, Network Programming, Foundations of Data Science, Data Mining
- **Research Interests:** Federated Learning, Distributed Systems, GAN, Reinforcement Learning, Privacy