Aparajith Raghuvir

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EDUCATION

University of Massachusetts Amherst Exp. Graduation May 2025
Manning College of Information and Computer Sciences

M.S in Computer Science
Coursework: RL; Algorithms and Fairness; Networking & Cybersecurity

Indian Institute of Information Technology, Kancheepuram July 2018 - May 2022
Bachelor of Technology in Computer Science and Engineering GPA: 9.28 / 10
Coursework: Deep Learning Specialization, Advanced DSA, OOPs, Big Data Analytics, Compiler Design

Chartered Financial Analyst Level 1 Pass June 2023

WORK EXPERIENCE

Ivy (unify.ai) May – Aug 2023
Machine Learning Engineer Remote

- Tech: Python, PyTorch, TensorFlow, Jax, GCP, TensorRT etc.
- To build AI deployment as a service, lead the development of deployment auto-tuning strategies and contributed significantly to the construction of Ivy's advanced inference engine.
- Optimized code based on the user's custom cost function across diverse computational frameworks like JAX, TensorFlow, and PyTorch.
- Oversaw the orchestration of benchmarking procedures involving Ivy's native TensorRT engine, Open XLA, OpenAI Triton, and other pertinent engines as part of the autotune function and shipped ivy.autotune!

Zoom Video Communications Jan 2022– Mar 2023
Security Software Engineer Bangalore, India

- Tech: Python, Splunk, Apache Nifi, AWS
- Developed, deployed and maintained an application to search petabytes of security log data from different sources such as AWS S3, DynamoDB, Cloudtrail as part of in-house SIEM with cost savings of more than a million dollars.
- Built the above-mentioned cloud log search app in a specific no-internet, high security standard environment with best practices, and with parallelization and optimization techniques, improved search speeds by >45%.
- Used Apache NiFi as a unified platform to ingest and automate flow of logs as part of the SIEM, built custom NiFi processors to send data to Splunk via TCP for faster transfer speeds and via HTTP to Splunk which sends compressed data (at least 10x lower file sizes).

MathWorks Inc. May 2021– Oct 2021
Software Engineer in Test Intern Bangalore, India

- Built a tester for the MATLAB to System C automated code conversion command line workflow and the first GUI tester for the HDL Coder team.

SKILLS

Programming Languages: Python, C, C++, MATLAB, Javascript
Tools: GitHub, MySQL, REST API, PyTorch, TensorFlow, Jax, Splunk, ELK, JIRA