

# Aparajith Raghuvir

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## EDUCATION

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**University of Massachusetts Amherst** Exp. Graduation May 2025  
Master of Science in Computer Science GPA: 4.0 / 4.0  
**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

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**Unify AI (YC W23)** May – Aug 2023  
*Machine Learning Engineer*

- Tech: Python, PyTorch, TensorFlow, Jax, GCP, TensorRT etc.
- To build end-to-end AI deployment as a service, lead the API design & distributed system development of deployment auto-tuning strategies with 20+ deployment backends 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 and infrastructure resulting in up to 3x speedup of inference.
- Oversaw the orchestration of benchmarking procedures involving Ivy's native TensorRT engine, Open XLA, OpenVINO, TVM and other pertinent engines as part of the autotune function and shipped `ivy.autotune!`
- Worked on building the model hub - a hub of models and custom endpoints with recurring benchmarking of metrics like time to first token, inter token latency etc for LLMs with dynamic routing support to optimally route and save both on costs by 1.5 - 2x and also optimize for metrics like latency based on region of request, output quality etc.

**Zoom Video Communications** Jan 2022– Mar 2023  
*Security Software Engineer*

- Tech: Python, Splunk, Apache Nifi, AWS
- Developed, deployed and maintained an application to search 100s of TBs 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 \$1M.
- 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  
*EDG Intern*

- 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.
- Won the internal hackathon by creating MATSIGHT- an app that scrapes social media and generates insights about MATLAB from the public for marketing and UX

## SKILLS

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**Programming Languages:** Python, C, C++, MATLAB, R, Java, JavaScript, TypeScript

**Tools:** Git, Docker, AWS, PyTorch, PostgreSQL, Kafka, ELK, Graph QL, React, Selenium, Terraform, NiFi