MEENA CHOCKALINGAM

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EDUCATION

Georgia Institute of Technology | GPA: 4.0 **Atlanta, GA**
M.S Computer Science *January 2021 – May 2023*
- **Relevant Courses:** Machine Learning, Data and Visual Analytics, Deep Learning, Computer Vision, Artificial Intelligence, AI for Robotics, Advanced Operating Systems, System Design for Cloud Computing, Graduate Algorithms

Anna University | GPA: 8.4 **Chennai, India**
B.E Computer Science and Engineering *July 2010 – June 2014*
- **Relevant Courses:** Artificial Intelligence, Operating Systems, Compilers, High Performance Computer Architecture, Design and Analysis of Algorithms, Data Structures, Object Oriented Design, Digital Signal Processing, Microcontrollers

PROFESSIONAL EXPERIENCE

Intel Corporation **Remote, OR**
Machine Learning Engineer Intern *June 2022 – May 2023*
- **Top skills:** LLM, HuggingFace, ONNX, Performance optimization, MLOps, taking initiative, remote work.
- Navigated an extremely ambiguous environment due to multiple reorganizations while delivering projects that added value.
- Benchmark, profile and optimize Stable Diffusion inference and scale-up model training on Intel and NVIDIA GPUs.
- Presentation on Stable Diffusion at Intel AI Everywhere conference.
- Profile and optimize distributed training of deep learning models on Xeon scalable processors.
- Present deep learning model performance comparison against competitive hardware to Intel AXG-SCG leadership.
- Championed containerization of AI workloads and automated their execution on on-prem cluster using Github Actions.

Graduate Teaching Assistant **Atlanta, GA**
Georgia Institute of Technology *January 2022 – December 2022*
- **Top skills:** Go, Redis, Docker, Kubernetes, Azure, Product and System design for cloud, conflict resolution.
- Course: CS-6211 / System Design for Cloud Computing
- Module expertise: Designing large-scale frameworks (MapReduce, Spark)

Athenahealth **Chennai, India**
Member of Technical Staff *July 2019 – Feb 2020*
- **Top skills:** Python, MERN, AWS EC2, Github, Scrum, Kanban.
- Designed and implemented micro-services on AWS for Hospital Collector module in an Agile environment.
- Mentored new hire, performed peer code reviews and pair programming to debug issues on Kanban board.

Nielsen **Chennai, India**
Senior Software Engineer *June 2018 – June 2019*
- **Top skills:** C++, Postgres, Spark, grpc, gdb, mentor, code reviews, taking initiative.
- Enhanced existing API to accommodate new features with cross collaboration across globally distributed teams.
- Rapid prototyped new APIs to present to architects to replace bloated legacy services.
- Rewrote a legacy service in modern C++ to achieve ~60% latency reduction in service execution.
- Mentored two new hires, performed code reviews, approved pull requests and debugged peer issues.

Cognizant Technology Solutions (E*Trade) **Chennai, India**
Programmer Analyst *July 2014 – May 2019*
- **Top skills:** C/C++, Oracle, SQL, grpc.
- Developed back-end web services using C / C++ and gRPC.
- Won 2016 E*TRADE's innovation challenge for cutting down the time taken to clear a brokerage account transaction.

PROJECTS

- Codeproject: Understanding LIST_ENTRY and its importance in OS.
- Object Detection: Custom computer vision model built from scratch for road sign and traffic light detection on LISA dataset.
- Pedestrian Tracking: Track multiple pedestrians in a video as they enter and leave the frame using Particle and Kalman Filter
- Warehouse Robot: A robot programmed with GraphSLAM that moves packages in a warehouse.
- Autonomous Driving: Steering angle prediction using CNN and ViT
- Distributed Training: BERT-Large pre-training on Wiki dataset and fine tuning on SQUAD

SKILLS & INTERESTS

Tech Skills: Python, C++, RDBMS, AWS, Azure, Docker, Slurm, OpenCV, CUDA, PyTorch, Tensorflow, ONNX, OpenMP, grpc
Tools and Packages: numpy, scipy, pandas, vim, vscode, git, wandb, transformers, accelerate, gdb, nsight,
Engineering Process: Agile, Github Actions, CI/CD, JIRA
Interests: Computer Vision, Large Language Models, Distributed Systems, Edge Inference