

Pranoy Ghosh

Blog | linkedin.com/in/pranoy24 | github.com/pranoyghosh

EDUCATION

New York University – Courant Institute of Mathematical Sciences	New York, USA
<i>MS in Computer Science — GPA: 3.78/4</i>	<i>Sep. 2025 – Expected May 2027</i>
• Relevant Coursework: Machine Learning, Operating Systems, Programming Languages	
Manipal Institute of Technology	Manipal, India

B.Tech Computer and Communication Engineering — CGPA: 9.07/10

Jul. 2017 – Aug. 2021

EXPERIENCE

Member of Technical Staff - DevOps	Nov. 2022 – July 2025
<i>Cohesity Inc.</i>	<i>Bengaluru, India</i>
• Architected and deployed a lab automation platform serving 600+ engineers with 100+ monthly active users, reducing infrastructure provisioning time by 60% through Infrastructure as Code implementation.	
• Engineered a log parser tool processing 5M+ diagnostic events daily, reducing Time to Resolution (TTR) for field engineers analyzing distributed system failures.	
• Designed and developed a performance analyzer tool that extracted actionable insights from raw diagnostics data, identifying I/O bottlenecks in Cohesity's distributed file system and improving troubleshooting efficiency.	
• Integrated lab automation system with Cohesity Knowledge Base to auto-generate Break-Fix scenarios, reducing SRE onboarding time by 50% through reproducible failure simulations.	
Site Reliability Engineer	Aug. 2021 – Oct. 2022
<i>Cohesity Inc.</i>	<i>Bengaluru, India</i>
• Optimized incident resolution workflows for distributed data management platform, maintaining high availability across 200+ production deployments.	
• Served as Subject Matter Expert for cluster capacity issues, debugging garbage collection, and data healing processes.	
• Collaborated with R&D teams to implement 15+ product improvements based on field diagnostics, enhancing platform reliability and performance.	

PROJECTS

Pico LLM – Transformer Language Model <i>Python, PyTorch, YAML</i>	
• Built a causal decoder-only transformer language model from scratch with custom attention mechanisms, positional embeddings, and KV caching optimizations for efficient inference (PyTorch).	
• Implemented model interpretability module with checkpoint loading, attention visualization, and feature-based steering capabilities to analyze model behavior during generation.	
• Trained model on custom datasets with configurable hyperparameters via YAML, achieving convergent loss curves and coherent text generation on validation sets.	
Unix Shell Implementation <i>C, Make</i>	
• Developed a POSIX-compliant Unix shell supporting built-in commands, I/O redirection, pipelines, background processes, and signal handling using system calls (fork, exec, wait) as part of NYU's graduate Operating Systems course.	
• Implemented command-line parser with enforced grammar validation and robust error handling for edge cases.	

TECHNICAL SKILLS

Languages: Python, C/C++, Bash, SQL, JavaScript, Terraform, PowerShell.

ML/AI: PyTorch, TensorFlow, Transformers, OpenCV, Model Training, Deep Learning.

Cloud & DevOps: AWS, Azure, Docker, Terraform.

Frameworks & Tools: Flask, Dash, Django, Git, Tableau, Neovim, Zabbix, Robot Operating System.

ACCOMPLISHMENTS

Publication: Co-authored a peer-reviewed IEEE paper on photorealistic image generation from 3D models using deep learning (MysuruCon 2021).

Tata Makerthon 2018: Winner of India's prestigious hardware innovation competition (100+ teams), leading to technical internship with Tata Sons Ltd.