Poorav Rawat

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Education

Georgia State University (Honors College) Graduation : May 2028

Bachelor of Science + Master of Science (Dual Degree) in Computer Science | ***GPA: 4.00***

Relevant Coursework: Deep Learning, Machine Learning, Data Mining, Cloud Computing, Advanced Algorithms, Computer Architecture, Software Development, Data Structures, Operating Systems, Applied Probability & Statistics

Experience

Intuit, Inc.

Site Reliability Engineering Intern *May 2026 - Aug 2026*

- Reduced incident rollback time by 50% by optimizing Jenkins deployment pipelines, using YAML configuration and shell scripting to safely validate and deploy updates during after-hours change windows.
- Led a resilience program using chaos engineering and FMEA on production assets leveraging Litmus for chaos testing and Wavefront, Prometheus, Splunk logs, and Argo UI to monitor pod and workloads to validate impact and failures.
- Migrated multi-repository deployment data to a scalable relational datastore with zero downtime reducing API failures.

Software Engineering Intern *May 2025 – Aug 2025*

- Migrated 33% of Intuit Mailchimp PHP monolith's CI pipeline from bare metal colocation nodes to AWS based Jenkins pipeline, improving CI maintainability and build reliability for 600+ engineers.
- Managed complex container orchestration involving legacy and updated container images; evaluated trade-offs between native Kubernetes and Podman container-in-container approaches reducing CI times by 30%

Center for Translational Research in Neuroimaging and Data Science (TReNDS)

Machine Learning Research Assistant *Jan 2026 – Present*

- Redesigned a PyTorch-based Independent Vector Analysis (IVA) pipeline for neuroimaging data, to optimize computational efficiency and increased subject-processing throughput by 50% for large-scale subject datasets.
- Built distributed PyTorch training pipelines across multiple GPUs on an High Performing Computing cluster; monitored GPU utilization and memory with nvidia-smi to diagnose training issues.

Machine Learning Research Intern *Jun 2024 – Aug 2024*

- Optimized a PyTorch signal-separation model for fMRI brain data across 26+ experimental runs, using Definitive Screening Design (DSD) and regression to isolate key hyperparameters and cut model error by 20%.
- Engineered data and evaluation pipelines using Python (NumPy, Pandas) and MATLAB for neuroimaging preprocessing, hypothesis testing, and loss/metric visualization.

Projects

HeyAI - Voice for AI Platforms | *Golang, Next.js, Google Cloud* – GitHub | Devpost *November 2025*

- Engineered a scalable, low-latency voice AI platform for real-time phone conversations with LLM agents, integrating Twilio, Vertex AI, and ElevenLabs via a cloud-native Go backend on Google Cloud Run.
- Built a Next.js/TypeScript admin console frontend with BigQuery analytics and robust CI/CD pipelines (Docker, Cloud Build), winning 1st Place at AI ATL 2025 for delivering an industry-grade application.

Savr - AI-Powered Meal Planning Platform | *AWS Bedrock, DynamoDB* – GitHub *October 2025*

- Engineered a full-stack dynamic meal-generation AI that creates personalized recipes from scanned grocery receipts, utilizing AWS Bedrock (Claude 3.5 Sonnet) for reasoning and Amazon Textract for data extraction.
- Architected a serverless backend infrastructure using AWS Lambda, API Gateway, DynamoDB, and S3 (automated via AWS CDK), optimizing the data pipeline to achieve sub-10 second end-to-end latency for OCR and AI workflows.

Involvements

Hacklanta | ***Lead Organizer + Sponsor Chair*** Aug 2025 – Present

- Organized the premier hackathon at GSU for both Spring and Fall, successfully hosting 750+ developers and creators.

ColorStack at GSU | ***Outreach Director*** Jan 2025 – Present

- Directed campus outreach and partnered with sponsors to expand career development and recruitment resources.

Technical Skills

Languages: Python, Go, Groovy, C++, JavaScript/TypeScript, PHP, SQL, Bash, YAML, MATLAB, HTML/CSS
DevOps & Automation: Docker, Kubernetes, Podman, Argo CD, Jenkins, CI/CD, Git, Shell Scripting
Cloud & Infrastructure: AWS, GCP, Azure, Cloud Run, Cloud Build, SLURM/HPC
Observability & Reliability: Prometheus, Grafana, Wavefront, Argo UI
Frameworks & Libraries: React, Next.js, Express, FastAPI, PyTorch, TensorFlow, JAX, NumPy, Pandas, Matplotlib
Data & AI Tools: PostgreSQL, MySQL, Firebase, BigQuery, Vertex AI, Codex, Claude Code