Devang Dhanuka

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EXPERIENCE

Research Assistant – Explainable AI (XAI) for Cybersecurity
Oct 2024 – Present

Rochester Institute of Technology — Advisor: Prof. Nidhi Rastogi
Rochester, NY

- Developed an explainable intrusion detection framework using Temporal Graph Neural Networks (TGNN) on DARPA Trusted Computing datasets, improving transparency of cybersecurity alerts.
- Benchmarked explainability methods (GNNExplainer, PGExplainer), analyzing fidelity, stability, and accuracy, and integrated results into interactive SOC dashboards (Streamlit) to enhance analyst decision-making.

Senior Engineer – Cloud Infrastructure & Security
Aug 2020 – Jun 2023

Netwoven Inc.
Kolkata, India

- **Managed Azure resources** for deployment and cost optimization—implemented **resource tagging**, budgeting, and cost reports to enhance visibility, billing accuracy, and cloud spend governance.
- Led **Microsoft 365 tenant-to-tenant migrations** for **3,000+ users** with zero downtime, and implemented enterprise-grade controls (**Information Protection, DLP, Intune, Conditional Access**) to safeguard sensitive data across global organizations.
- Automated key **IT operations workflows** using **Power Automate** and **PowerShell** to improve efficiency and reduce repetitive tasks across identity, licensing, and compliance operations.
- Supported **Govern365** (data governance platform) through **PoCs, customer demos, production deployments**, and adoption initiatives to align compliance frameworks with customer environments.

PROJECTS

Evaluation Framework for SOC LLMs | *OpenAPI, HuggingFace, AWS Bedrock, GCP Vertex AI*   Jul 2025 – Present

- Built a vendor-agnostic benchmark ingesting multi-source logs, normalizing to **ECS/STIX**, mapping to **MITRE ATT&CK**, and evaluating **proactive (log-driven)** and **reactive (alert-driven)** SOC workflows across models (Anthropic, OpenAI, Gemini, LLaMA, DeepSeek, Qwen).
- Generated reproducible scores for **detection/triage, IOC extraction, hallucination accuracy, ATT&CK coverage**, with dashboards reporting **latency, cost, and explainability**.

Financial Management Hub (Serverless AWS App) | *AWS, Terraform, Docker, CI/CD*   Feb 2025 – Apr 2025

- Developed a serverless financial tracking app using AWS Amplify, Lambda, and DynamoDB, integrated with Plaid/OpenAI APIs for automated expense insights, achieving 99.99% availability.
- Implemented auto-scaling infrastructure and CI/CD pipelines with Terraform, Docker, and GitHub Actions

Travel Itinerary Planner with Google ADK Agents | *Google ADK, Vertex AI, BigQuery*   May 2025 – Jun 2025

- Built a multi-agent planning system leveraging Google ADK; agents ranked attractions, ingested preferences, and generated optimized day-by-day travel itineraries.
- Applied orchestration techniques, serverless architecture, and GCP IAM/security policies to deliver a cost-efficient, scalable system.

EDUCATION

MS Data Science
Aug 2023 – Dec 2025

Rochester Institute of Technology
Rochester, NY

Bachelor of Computer Applications
Jul 2017 – Jun 2020

Amity University
Noida, India

PUBLICATIONS

"Survey Perspective: The Role of Explainable AI in Threat Intelligence."
Nidhi Rastogi, Devang Dhanuka, *et al.* – Survey study on integrating XAI into SOC workflows.
"Too Much to Trust? Measuring the Security and Cognitive Impacts of Explainability in AI-Driven SOCs."
Nidhi Rastogi, Devang Dhanuka, *et al.* – Evaluates explainability methods' effect on analyst trust and efficiency.
"Impact of LLMs on Team Collaboration in Software Development." Devang Dhanuka.

TECHNICAL SKILLS

Programming: Python, Java, SQL, PowerShell
ML/AI: PyTorch, TensorFlow, HuggingFace, XAI (LIME, SHAP, GNNExplainer)
Cloud/MLOps: AWS, GCP, Azure, Terraform, Docker, Kubernetes, CI/CD
Databases/Analytics: MySQL, PostgreSQL, NoSQL, Pandas, NumPy, PowerBI, Streamlit