

Devang Dhanuka

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EXPERIENCE

Graduate Research Assistant - AI in cybersecurity	Oct 2024 – Present
Rochester Institute of Technology — Advisor: Prof. Nidhi Rastogi	<i>Rochester, NY</i>
<ul style="list-style-type: none">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 (GNNEExplainer, 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.	<i>Kolkata, India</i>
<ul style="list-style-type: none">Managed Azure resources for deployment and cost optimization—implemented resource tagging, budgeting, and cost reports to enhance visibility, billing accuracy, and cloud spend governance.Contributed to Microsoft 365 tenant-to-tenant migrations for 5,000+ users with minimum 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 <i>OpenAPI, HuggingFace, AWS Bedrock, GCP Vertex AI</i>	Jul 2025 – Present
<ul style="list-style-type: none">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) <i>AWS, Terraform, Docker, CI/CD</i>	Feb 2025 – Apr 2025
<ul style="list-style-type: none">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 <i>Google ADK, Vertex AI, BigQuery</i>	May 2025 – Jun 2025
<ul style="list-style-type: none">Built a multi-agent planning system leveraging Google ADK; agents ranked attractions, ingested preferences, and generated optimized day-by-day travel itineraries.Applied agent orchestration, serverless architecture, and event-driven design to deliver a cost-efficient, scalable system.	

EDUCATION

MS Data Science	Aug 2023 – Dec 2025
Rochester Institute of Technology	<i>Rochester, NY</i>
Bachelor of Computer Applications	Jul 2017 – Jun 2020
Amity University	<i>Noida, India</i>

PUBLICATIONS

“Survey Perspective: The Role of Explainable AI in Threat Intelligence.”	
Nidhi Rastogi, Devang Dhanuka, <i>et al.</i> - 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, <i>et al.</i> - Evaluates explainability methods' effect on analyst trust and efficiency.	
“Impact of LLMs on Team Collaboration in Software Development.” Devang Dhanuka.	

TECHNICAL SKILLS

Programming & Scripting: Python, Java, PowerShell, React.js
ML & AI Frameworks: PyTorch, TensorFlow, Hugging Face, PyTorch Geometric (PyG), vLLM, FastAPI
Cloud & MLOps: AWS, GCP, Azure, Docker, Kubernetes (K8s), CI/CD, Terraform
Data Engineering & Databases: MySQL, NoSQL, Pandas, NumPy
Visualization & Analytics: Power BI, Streamlit