

RITHVIK MYSORE SURESH

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Agentic AI Engineer, MS Computer Science (GPA 3.8, IU), 2+ years at Mercedes-Benz R&D. **Flagship project:** WAF Red-Team/Blue-Team Sandbox where attacker and defender LLM agents contend over live AWS WAFv2 rules, driving attack success from **67% to 0%** with **0.0% false positives**. Full-stack across Python, React, Node.js, and AWS. Open-source MCP server shipped on own initiative.

TECHNICAL SKILLS

Agentic AI: Multi-agent Orchestration, LangChain, LangGraph, Tool Calling, MCP (Model Context Protocol), RAG, Agentic Security & Evaluation, Claude API, Gemini API, Copilot Studio
Languages: Python, JavaScript, TypeScript, Go
Frontend and Backend: React.js, React Native, Node.js, Flask, REST APIs, Microservices, Auth0
Cloud and DevOps: AWS (EC2, S3, Lambda, CloudFront, WAFv2, CloudWatch, Boto3), Docker, GitHub Actions, CI/CD
Databases: MongoDB, MySQL, ChromaDB, SQLite

EXPERIENCE

Indiana University - Agentic AI Engineer | Full Time May 2026 - Present
Bloomington, IN

- Deployed AI automation agents in Microsoft Copilot Studio for capital reporting workflows across 7 IU campuses, cutting manual processing time by **60%**.
- Cut GL/eBuilder reconciliation time from **multi-day to same-day** by piloting a 3-stage Claude code-interpreter pipeline (ID matching, PO validation, invoice drill-down).
- Translate AI pipeline outputs into leadership-ready narratives with clear business conclusions for R&R capital planning cycles.

Indiana University - Project Intern Nov 2024 - May 2026
Bloomington, IN

- Architected and shipped a production web platform solo (React.js, Node.js, Go, MongoDB) with Auth0 SSO, deployed on AWS with CloudFront, achieving 80% test coverage via Jest with **zero post-release auth defects** and 99.9% uptime.
- Refactored 8 legacy HTML pages to React component architecture alongside a 7-member cross-functional team, improving rendering performance by 35% and cutting page-load latency by **40%**.

Mercedes-Benz Research and Development India - Software Engineer | Full Time Aug 2022 - Jul 2024
Bengaluru, India

- Sole full-stack developer for Mercedes-Benz's production website; cut load time from **4s to 2s** via lazy loading and code splitting, sustaining 100% uptime across all releases.
- Built OneMB cross-platform app (React.js, React Native) across 10+ Agile sprints, reducing frontend bug count by **30%** through ESLint-driven quality gates and systematic refactoring.
- Resolved critical microservice failures (token expiry, config mismatches), lifting first-attempt deployment success to **90%** and easing rollback-driven delays in release cycles.

PROJECTS

WAF Red-Team/Blue-Team Agentic Sandbox [\(Live Demo\)](#) Jun 2026
Python, AWS WAFv2, Boto3, LLM Agents (Claude, GPT), AWS CloudWatch

- Built an **agentic security** sandbox where attacker and defender LLM agents contend over live AWS WAFv2 rule logic, using WCU-budgeted COUNT-mode staging to safely test rule changes.
- Drove simulated attack success from **67% to 0%** across five adversarial rounds; defender agent writes, stages, and verifies every rule autonomously with safety logic enforced in code, not trusted to the model.

StandupBot MCP [\(Code\)](#) Apr 2026
Node.js, Model Context Protocol (MCP), GitHub API

- Built and open-sourced an MCP server connecting Claude to GitHub, surfacing 24 hours of commits, PRs, and reviews as a structured standup update; direct HTTPS to GitHub API, no proxy, zero telemetry.
- Shipped 3 production tool-calling endpoints (get_standup, get_standup_multi, get_repo_pulse); MIT-licensed, self-initiated outside any work requirement.

Autonomous Route Optimizer AI [\(Live Link\)](#) Feb 2026
Gemini API, Google AI Studio, Google Maps API, Web Speech API

- Architected a multi-agent logistics system for constraint-based route optimization using Gemini and Google Maps APIs, coordinating 10+ stops in real time with **100% pickup-before-dropoff constraint adherence**.
- Integrated Web Speech API for fully hands-free voice-to-route interaction, reducing manual route planning time by **50%**.

CuraSure [\(Live Link\)](#) Mar 2025
AWS (EC2, S3, Lambda), React, Go, MongoDB, Docker

- Engineered a full-stack healthcare platform with role-based access for patients, doctors, and insurers; containerized microservices on AWS EC2, 30+ REST APIs secured with 2FA, encryption at rest, and audit logging.

EDUCATION

Indiana University Bloomington Aug 2024 - May 2026
M.S. Computer Science | GPA: 3.8/4.0 - Bloomington, IN

Siddaganga Institute of Technology Aug 2018 - Jul 2022
B.E. Computer Science | GPA: 8.8/10.0 - Tumakuru, India