

# Adithya Rajesh Pillai

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I am interested in contributing to the space of AI Safety and Machine Learning to solve complex problems and to have a safe ecosystem. My focus is on Multi-Agent Security, Alignment, Biosecurity and ML Architecture. I also like creating impactful software with my skills in software and product engineering and solving challenging problems for customers by giving high quality solutions in the cybersecurity space.

## EXPERIENCE

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### Founding Engineer

*Enovatin Technologies*

October 2025 – Present

*Reading, United Kingdom*

- Redesigned a slow sequential AI workflow into a multi-agent orchestration pipeline, cutting average completion time from approx 40s to 15s.
- Built an async job queue with background workers to unblock a synchronous API, offloading 60% of processing and improving response time 3x.
- Refactored the backend and frontend over a 6-week sprint, delivering the migration with zero production downtime.

### Cybersecurity Solutions Intern

*Wipro*

January 2025 – September 2025

*Reading, United Kingdom*

- Delivered CXO-level SOC-CMM assessment reports for Fortune 500 European enterprises, translating NIST CSF and ISO 27001 findings into audit-ready actions.
- Standardised solution architectures across multiple pre-sales engagements, reducing rework by  $\tilde{20}\%$ .
- Produced 6 client-ready case studies on security assurance and ROI-driven remediation with enterprise partners.

### Software Engineer Intern

*ThoughtMinds*

September 2023 – November 2023

*Kochi, India*

- Fine-tuned Llama 2 for a text-classification task, improving prediction accuracy from 65% to 85%.
- Migrated a ReactJS frontend to Next.js + TypeScript, enabling SSR on 5 routes and cutting page load time 30%.
- Ran cross-environment testing across AWS and Azure, logging endpoint behaviour in staging and production to catch deployment regressions.

### Software Engineer Intern

*Ellowtech*

June 2022 – July 2022

*Kochi, India*

- Optimised candidate-search SQL queries through indexing and restructuring, cutting filtered lookup time by 25%.
- Documented internal API contracts for developer onboarding flow, adopted as reference across the frontend team.
- Configured Azure RBAC across dev/staging/prod for a client deployment, enforcing least-privilege access.

## EDUCATION

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### Vellore Institute of Technology

*Bachelor of Technology in Computer Science and Engineering (First Class Honours)*

Vellore, India

*Sept. 2021 – July 2025*

- Electives: Predictive Analytics, Information Security Analysis & Audit, Information Security Management, Internet of Things, Cyber Security
- Published journal paper and assisted professors on research in ML, Cryptography & Embedded Systems.

## JOURNAL PUBLICATIONS

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### Privacy and Data Protection Challenges in Industry 4.0: An AI-Driven Perspective

Tanisha Jauhari, **Adithya Rajesh Pillai**, Gaurpriya Singh Roy, Adhip Koshy, Stuti Kothari, and Ajitha D.  
*World Journal of Advanced Engineering Technology and Sciences (WJAETS)*, 2024

## PROJECTS

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- Infrastructure Cost Optimisation Agent** | *React, LangGraph, Python, AWS* January 2026 – March 2026
- Built an agentic FinOps tool that autonomously analyses AWS spend and surfaces cost-saving recommendations
  - Added an LLM-driven validation step that reviews each recommendation for feasibility and risk before surfacing it.
- Home Lab SIEM** | *Python, PostgreSQL, Redis, Docker* November 2025 - December 2025
- Built a real-time alert notification service with severity-based priority queuing and multi-channel delivery.
  - Engineered per-recipient token-bucket rate limiting via Redis scripts to prevent alert fatigue.
- Batch Transaction Processing Engine** | *C, flat-file I/O, Makefile, Parsing* July 2025 - September 2025
- Built a batch processor in C that reads master account file and a transaction file, writing an updated master.
  - Generated an end-of-day summary report with total debits, credits and closing balance of reconciliation.

## SKILLS

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**Languages:** Python, JavaScript, TypeScript, SQL (PostgreSQL), Bash, HTML/CSS

**Frameworks:** React, Next.js, Node.js, FastAPI, Flask, Redux, LangChain, TensorFlow, Keras

**Tools & Platforms:** Git, GitHub Actions, Docker, Kubernetes, GCP, AWS, Linux, Redis, VS Code, Cursor, Claude Code, Grafana, PostHog, Postman, Figma, Burp Suite, Nmap, Wireshark, Splunk, Wazuh, Nessus, Microsoft Sentinel

**Key Concepts:** AI/ML, RAG, REST API Design, Backend Development, Frontend Development CI/CD, Testing, Cloud Security, Cybersecurity, OWASP Top 10, SAST/DAST, Vulnerability Management, Threat Intelligence, Incident Response, IAM, Zero Trust, Security Operations, Distributed Systems, OOP, SDLC, UI/UX, Product Engineering

**Soft Skills:** Analytical thinking, cross-functional collaboration, technical communication, research synthesis, attention to detail, stakeholder management, product intuition, structured problem-solving, adaptability, ownership mindset

## ACHIEVEMENTS

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### Malva Labs

*Initiated non-profit research organisation focusing on AI Safety & Alignment, Biosecurity and Hardware.*

### Security Research

*Won \$20k+ from Live Hacking & Capture the Flag Events. Frequent Bug Bounty Hunter & Contributor.*

### Hackathons

*Participation in over 35 Hackathons Worldwide, Coming Top 3 in 5 Major League Hacking & DevPost Hackathons.*

### Certifications

*EC-Council Certified Ethical Hacker (CEHv12), Google Cloud Computing Foundations*

## ADDITIONAL INFORMATION

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### Care & Support Service

*10+ year tradition spending & donating to orphanages and old age homes, spending time communicating & learning.*

### Fundraising

*Hosting food stalls funding children's health & participating in Marathons for cancer research & flood support.*

### English Cricket Board

*ECB ACO Certified Cricket Umpire Level 1, Certified Cricket Scorer Level 2.*

### Sports

*Long Distance Runner (Marathons & Half-marathons), participation at high level for Basketball, Football & Cricket.*

### Art

*Participated & Won state-wide & district-wide art competitions & exhibitions specialising in oil painting & charcoal drawing.*

### Languages

*English (Fluent), Malayalam (Fluent), Mandarin (Intermediate), Hindi (Intermediate), Thai (Basic), Spanish (Basic)*