

# Ahmed Chouaya

AI Engineer | Specialized in Autonomous Agent Systems

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## PROFESSIONAL SUMMARY

Software engineer specialized in architecting **autonomous AI agent systems** and multi-agent workflows. Expert in **MERN stack**, **Next.js**, **Django**, and **Python**. Experienced in modifying core AI infrastructure and developing specialized, high-precision AI agents skills for technical research and automated code review using **GOOGle ADK** and **LangChain**.

## TECHNICAL SKILLS

- **AI & Autonomous Systems:** Multi-Agent Orchestration, Google ADK (Agent Development Kit), agents-cli, Hermes Agent Skill Development, Claude Code, OpenCode, Prompt Engineering, RAG.
- **Languages & Frameworks:** Python 3.13, Django, TypeScript/JavaScript, Next.js, React, Node.js, Tailwind CSS, shadcn/ui.
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda), Docker, CI/CD (GitHub Actions), Linux (Arch/Fedora/NixOS), Microsoft Azure.
- **Architecture:** RESTful APIs, Microservices, Monorepos (Nx).

## PROFESSIONAL EXPERIENCE

THE INFLUENCERS LAB LTD | Director *United Kingdom (Remote) | May 2025 – Apr 2026*

- **Architected and Open-Sourced the IMA Framework**, a professional multi-agent agentic framework featuring 8 specialist personas and 35+ structured workflows for influencer marketing.
- **Developed the IMA-Hermes-Agent Skill**, a production-grade 5-agent fleet that automates YouTube discovery, transcript-based hook extraction (via Firecrawl), and personalized cold email generation.
- **Leveraged Hermes agent and Paperclip** to build autonomous workflows that analyze YouTube content and generate high-intent creator outreach strategies.

DATAUP LTD | Full-Stack Software Engineer *United Kingdom (Remote) | Feb 2025 – Aug 2025*

- **Engineered a custom AI Agents Management Dashboard** to provide centralized control and monitoring of internal agentic workflows and labeling processes.
- **Modified the CVAT (Computer Vision Annotation Tool) core** by engineering custom annotation tools to handle specialized data labeling requirements.
- **Implemented native support for Arabic document annotation**, solving complex RTL (Right-to-Left) rendering and text-processing challenges within the AI pipeline.
- **Developed scalable Django-based APIs** to facilitate seamless data management and platform-wide integration.

BAKCHICH | Full-Stack Software Engineer *Tunisia (Remote) | Oct 2023 – Jan 2025*

- **Refactored the core user dashboard and post engagement engine** in Next.js, optimizing the delivery and interaction logic for premium/follower-only content, tips, and shares.
- **Managed cloud infrastructure and CI/CD** using **Microsoft Azure** and **GitHub Actions**, handling production deployments and debugging service-level issues.
- **Architected development workflows** using **Nx (Monorepo)**, **Docker**, and **NixOS/nix-shell** to ensure absolute environment consistency across the engineering team.
- **Implemented complex i18n support** for a global user base and managed database queries/schemas using **Prisma** and **MySQL**.
- **Special Project:** Successfully configured and hosted a high-performance Minecraft server on Azure for a creator, managing specialized resource allocation.

LISSEN & CO | Full-Stack Software Engineer *Tunisia (Remote) | Nov 2022 – Oct 2023*

- **Mastered and deployed the MERN stack**, developing high-performance applications using React, Redux, Node.js, and MongoDB (Mongoose).
- **Optimized specialized audio file pipelines** to ensure seamless, low-latency playback, balancing technical performance with responsive, visually appealing front-end interfaces.
- **Independently managed Linux server environments**, building custom troubleshooting and problem-solving workflows for high-availability services.
- **Implemented cloud-native storage and deployment strategies** using **AWS Lightsail** and **S3 buckets**, applying scalable cloud technologies to real-world projects.

## KEY PROJECTS

**Grumpy** | (Google ADK & agents-cli)

- **Developed an experimental code-review agent** using the **Google Agent Development Kit (ADK)** and **Gemini Flash**, designed to enforce strict coding standards through punchy roasts and zero-tolerance logic.
- **Engineered a rigorous evaluation suite** using an **LLM-as-judge** to measure performance across 4 metrics: Harshness, Brevity, No-Help, and Condescending Tone.
- **Achieved 100% pass rates** on custom evalsets, demonstrating advanced control over behavioral prompt engineering and persona persistence.

**AlgoMath** | (AI Agent Skill)

- **Developed an autonomous agent skill** for **Claude Code** and **OpenCode** that automates the extraction of mathematical algorithms from research papers into executable Python code.
- **Collaborated with a Mathematics PhD** to design logic-heavy workflows that eliminate LLM hallucinations in technical research environments.

**IMA (Influencer Marketing Agent)** | Framework Architect

- **Designed a "Client-First" agentic architecture** that transforms AI coding tools (Claude Code, Cursor) into high-performance agencies using structured YAML workflows and session routing.
- **Implemented "Party Mode" logic**, enabling collaborative multi-agent discussions for complex strategy brainstorming and cross-persona debate.