MD ABU SAYEED

Head of AI | AI Automation Architect | Full-Stack Developer (Laravel + React) | Blockchain Solution Architect | Published AI Researcher

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PROFESSIONAL SUMMARY

AI leader and published researcher with 6+ years delivering production-grade enterprise AI. Head of AI at Riseup Labs and Founder/Chief Architect of CUTEADMOA, a Mixture-of-Agents platform unifying 346+ models across 8 studios. Author of a peer-reviewed journal paper (DOI: 10.4236/airr.2026.23011) and the book "Cuteadmoa: Building a Self-Improving AI Platform" (Eliva Press). Expert in LLM orchestration, multi-agent systems, model routing, RAG, LoRA fine-tuning, and MLOps, backed by full-stack engineering (Laravel, ReactJS/Next.js, Node.js, Python) and Ethereum/Solidity smart contracts. CSM and PSPO I with PMP, ITIL4 and PRINCE2; led teams of 12+ and delivered 40-65% efficiency gains, 40% + inference-cost reduction, and 75% AI-infrastructure savings across fintech, healthtech, edtech, SaaS, supply chain, and PropTech.

CORE SKILLS

AI & Machine Learning: LLM Orchestration, Mixture-of-Agents (MoA), AI Agents, Multi-Agent Systems, LangChain, LangGraph, Ollama, llama.cpp, Hugging Face, LoRA Fine-Tuning, Retrieval-Augmented Generation (RAG), NLP, Computer Vision, Predictive Analytics, Model Routing, MLOps, Prompt Engineering, AI Governance & Safety
Backend & Data: PHP, Laravel, Node.js, Express.js, Python, REST API, GraphQL, Microservices, PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, WebSockets
Frontend: ReactJS, Next.js, TypeScript, JavaScript, Tailwind CSS, Redux, Material UI, SSR / SEO, Responsive UI
Blockchain / Web3: Ethereum, Solidity, Smart Contracts, Web3.js, Ethers.js, Hardhat, DeFi, NFT, IPFS, The Graph, DApps
Cloud & DevOps: AWS (EC2, S3, Lambda), Azure, Docker, Kubernetes, CI/CD, GitHub Actions, Jenkins, Nginx, Linux, systemd, Grafana, Prometheus, Zero-Downtime Deployment, Zero-Trust Networking
Leadership & Product: AI Strategy, AI Center of Excellence, Model Governance, Technical Hiring, Agile, Scrum (CSM), Product Ownership (PSPO I), PMP, ITIL4, PRINCE2, Jira, Confluence, Stakeholder Management, Risk Management

PROFESSIONAL EXPERIENCE

Head of Artificial Intelligence
Sep 2026 – Present

Riseup Labs — Dhaka, Bangladesh (On-site)

- Define and execute enterprise AI strategy across fintech, healthtech, edtech, and SaaS verticals; lead end-to-end delivery of autonomous agent systems from requirements and architecture through multi-agent orchestration, production deployment, and continuous improvement.
- Designed and deployed RiseupLabs Pipeline, an internal AI delivery-automation platform: one governed workflow from product intent to verified release with a 19-role agent model, 5 delivery gates (AI-DLC / SDLC), 210 cataloged skills, and 4 AI subscription lanes.
- Built a Mixture-of-Agents routing layer for client projects, cutting inference cost 40%+ vs. single-model baselines while improving task accuracy.
- Established AI safety/compliance review (data privacy, bias testing, adversarial robustness), model governance, and evaluation frameworks; building the AI Center of Excellence (hiring, tooling standards).
- Delivered automation across 26 workstreams and a 36-project fleet (55 endpoints): PRD/SRS with 18/18 requirements traced, a PHP orchestrator audit (471 tests / 4,112 assertions / zero failures), and 1,217 passing web/mobile tests; built a RAG knowledge layer with corpus harvesting and automated skill creation.
- Partnered with pre-sales to close 3 enterprise AI-automation deals in the first month. Stack: Python, LangGraph, Ollama, Hugging Face, llama.cpp, PostgreSQL, Kubernetes, Grafana, Prometheus.

Founder & Chief Architect
Sep 2023 – Present

DOTAISTUDIO / CUTEADMOA — Dhaka, Bangladesh (Remote / Global)

- Built CUTEADMOA, a production Mixture-of-Agents platform unifying 346+ models across 8 specialized studios (chat, code, security, image, audio, video, slides, research) with intent-based smart routing across 24 intents and 23+ engines.
- Engineered a continuous self-training pipeline (production interactions to dataset curation to LoRA fine-tuning to A/B evaluation to staged rollout): 857,000+ instruction pairs and 204 verified datasets across 24 categories; published companion models CuttyMOA-1.0 / 1.2 on Hugging Face.
- Achieved 99.2% fast-tier completion and 7.8s p95 latency over 4,117 requests in a 30-day production evaluation; reduced client AI-infrastructure cost 75% via smart routing.
- Built a reliability layer with redundant gateway proxies, independent credential-pool rotation, preemptive rate-limit handling at 95%, and a 20+ slot failover chain stress-tested to full credential exhaustion.
- Developed 27 cybersecurity intents with cross-validated severity classification and HTML/DOCX reporting; created ScrapePower (Selenium + 8 extractors + AI extraction + cron scheduling); shipped 6 native distributables (macOS, iOS/iPad, Swift CLI).

Technical Director
Apr 2025 – Sep 2026

Afritech54 LLC — United States (Remote)

- Led development of CUTEADMOA-5.4 PRO: 13 specialized security models with smart routing and an aggregation engine for cybersecurity operations (threat detection, vulnerability analysis, incident response).
- Scaled DOTAISTUDIO as a multi-tenant AI SaaS: multi-model inference, usage metering, and per-tenant data isolation.
- Delivered enterprise AI consulting for US clients (automation roadmaps, model selection, infrastructure design) with secure-by-default deployments (zero-trust networking, secrets rotation, audit logging); directed full-stack (Laravel / ReactJS) and blockchain (Solidity / Web3.js) delivery across fintech, healthcare, and PropTech.

Software Team Lead / Lead Backend Developer Sep 2022 – May 2025
SEOPage1 — Dhaka, Bangladesh

- Progressed from Lead Backend Developer (Sep 2022 – Mar 2024) to Software Team Lead (Oct 2023 – May 2025); led a team delivering client web platforms with ownership of sprint planning, code quality, and delivery timelines.

Technical Vice President / VP of Technical Services Aug 2023 – Jan 2025
Dr. Myatt Academy of Learning — New Brunswick, Canada (Remote)

- Engineered a headless Laravel API + Next.js architecture, improving maintainability and security; achieved 95+ Lighthouse performance via SSR/SEO and built event-management modules for conference scheduling, abstract submissions, and speaker profiles.
- Led technical services and product delivery for the academy's digital platforms.

Software Engineer & Scrum Master / Technical Lead Dec 2020 – Sep 2023
Global Skills Development Agency — Dhaka, Bangladesh

- Architected microservices handling 100K+ daily transactions at <50ms latency; led cross-functional teams of 12+ in Agile/Scrum environments.
- Delivered a fraud-detection system reducing false positives 80% via predictive analytics; built an Ethereum smart-contract ecosystem for supply-chain transparency.
- Mentored developers, established coding standards and architecture best practices, and managed product roadmap and C-level stakeholder communication.

Earlier Experience

Backend Web Developer — Ari Ventures — Hong Kong (Remote) Mar 2021 – Apr 2022
Laravel Developer — Gangnum.com — Dhaka, Bangladesh Nov 2020 – Mar 2021
Software Engineer — Ariventure — Hong Kong (Remote) Jun 2020 – Nov 2020

PUBLICATIONS & RESEARCH

- Sayeed, M. (2026). "CUTEADMOA: A Unified Mixture-of-Agents Platform with Continuous Self-Training for Autonomous Enterprise AI Automation." Advances in Artificial Intelligence and Robotics Research, 2(3), 190–208. DOI: 10.4236/airr.2026.23011 (peer-reviewed, open access).
- Sayeed, M. (2026). "Cuteadmoa: Building a Self-Improving AI Platform — A Production Reference Architecture for Mixture-of-Agents Systems." Eliva Press, 78 pp. ISBN 978-99993-5-977-1. Available on Amazon.

FEATURED PROJECTS

WALC — HIPAA-Compliant Hospital ERP

- Built an AI resource-allocation engine predicting bed occupancy, staff scheduling, and equipment use with 92% accuracy; Solidity smart contracts for immutable patient records and secure inter-hospital sharing.
- AI diagnostic triage cut ER wait times 30% across 2 hospital clients; improved resource allocation and data integrity 40% with a full blockchain audit trail. Stack: Laravel, ReactJS, Predictive ML, Solidity, IPFS, PostgreSQL, Python, AWS.

DeFi Lending Protocol & Analytics Dashboard

- Designed a lending/borrowing protocol with collateralization, liquidation triggers, and interest-rate models in Solidity; passed a third-party audit with zero critical vulnerabilities, handling 5,000+ daily on-chain transactions.
- Real-time ReactJS dashboard for pool liquidity, APY, and positions via Web3.js and The Graph; gas optimization reduced average transaction cost 35%. Stack: Solidity, ReactJS, Web3.js, The Graph, Hardhat, Ethers.js, IPFS.

OwnersVote — Secure E-Voting System

- Built a Laravel voting engine with quorum checks, weighted voting, and Yes/No/Abstain counting; ReactJS dashboard for strata managers with real-time participation tracking and server-side PDF minutes.
- RBAC via Laravel Policies, full audit-trail logging, and vote-integrity controls (double-vote prevention, proxy-conflict validation). Stack: Laravel, ReactJS, OpenAI, MySQL, Redis, AWS S3.

InvestAfrica54 — Pan-African Real-Estate Tokenization

- PropTech platform enabling fractional real-estate ownership across 54 African countries via a hybrid Web2 + Web3 architecture; ReactJS SPA with investment dashboards and Laravel KYC/AML and off-chain payments.
- Solidity contracts for property-token minting, rental-yield distribution, and compliance; Web3.js/MetaMask wallet integration with a dual-layer security model. Stack: Laravel, ReactJS, Web3.js, Solidity, MySQL.

CERTIFICATIONS

Certified Scrum Master (CSM) — Scrum Alliance / Peoplecert, 2021; Professional Scrum Product Owner I (PSPO I) — Scrum.org, 2022; Project Management Professional (PMP) — Global Skills Development Agency, 2022; ITIL4 Foundation — Global Skills Development Agency, 2022; PRINCE2 Professional — Global Skills Development Agency, 2022; AWS Fundamentals — Core Cloud Architecture; Ethereum Developer — Solidity & Smart Contracts.

EDUCATION

BSc, Computer Science & Technology 2016 – 2020
East West University — Dhaka, Bangladesh

BSc, Civil Engineering 2014 – 2016
Military Institute of Science & Technology (MIST)

Languages: English (Fluent) | Bengali (Native)