MD. ADIB HASAN

Aspiring AI Engineer | LLM Systems, RAG & Agentic Pipelines

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PROFESSIONAL SUMMARY

3rd-year Electrical & Computer Engineering student (RUET) building applied AI systems, backed by hands-on coursework in LLM engineering fundamentals (OpenAI API, LangChain, RAG, vector databases) and three shipped personal projects spanning a RAG/agentic pipeline and privacy-first web apps. Builds fast using AI-assisted coding tools like Claude Code, and is now extending that speed into engineering AI systems directly. Led a funded 4-person startup team (1 of 5 selected from 130+ applicants) and has competed in five national hackathons.

EDUCATION

B.Sc. in Electrical & Computer Engineering | Rajshahi University of Engineering & Technology (RUET) 2023 – Present (3rd Year, 2nd Semester)

- Current CGPA: 3.69 / 4.00
- Relevant Coursework: C Programming, OOP (C++/Java), Data Structures & Algorithms, Database Management, Software Engineering, Computer Organisation & Architecture, Microprocessor, Discrete Mathematics, Digital Techniques

TECHNICAL SKILLS

AI/ML & LLM Engineering: OpenAI API, LangChain, Retrieval-Augmented Generation (RAG), Prompt Engineering, Hugging Face (Transformers, Pipelines), Embeddings & Semantic Search

Data & Backend Infrastructure: Pinecone, ChromaDB, Supabase (PostgreSQL), Firebase / Firestore, SQL

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL

Core Software Engineering: Object-Oriented Programming, Unit Testing (pytest), Git/GitHub

Deployment & Tooling: Vercel, Cloudflare Pages, Cloudflare Turnstile, Brevo, Postman

AI / LLM PROJECT

RAG & Agentic LLM Pipeline | DataCamp certification project **2026**

Python | LangChain | Pinecone | ChromaDB | OpenAI API | Hugging Face

- Built a modular RAG pipeline that ingests and chunks YouTube transcripts, embeds them via the OpenAI API, and retrieves context through namespaced Pinecone indexes to generate grounded responses — packaged as a tested Python module (pytest, PEP 8) rather than a one-off script.
- Extended the same techniques to build a ChromaDB-based semantic search module and a LangChain agent (ReAct pattern) with custom tool calls, plus a minimal MCP server exposing those tools for external LLM access.
- Completed DataCamp's 10-course, 29-hour Associate AI Engineer certification, covering prompting, embeddings, RAG vs. fine-tuning trade-offs, and LLMOps fundamentals.

SOFTWARE ENGINEERING PROJECTS

RCS — RUET Computing Society Website (Organization Project, In Development) **2026**

Next.js 15 | React 19 | TypeScript | Tailwind CSS v4 | Supabase | Cloudflare Turnstile | Brevo | Vercel

- Developing the official RUET Computing Society website as a full-stack Next.js 15 / React 19 platform for the organization, with the frontend currently live at a testing URL ahead of public launch: rcs-indol.vercel.app
- Built a self-hosted front end with Tailwind CSS v4, Motion, Lenis, and OGL powering a custom HUD-style motion/visual system, achieving a perfect 100/100 Lighthouse score across Performance, Accessibility, Best Practices, and SEO, with graceful fallbacks when JavaScript or motion is disabled.
- Extending the project into a full-stack platform (backend in progress, not yet deployed): building the database layer on Supabase (PostgreSQL), separate admin and moderator dashboards for managing content and applications, Cloudflare Turnstile for bot/spam protection on public forms, and Brevo for transactional and notification emails.

Business Model Canvas Builder — Privacy-First Strategy Tool (Personal Project, Launched) **2026**

Astro | TypeScript | Browser localStorage

- Built a free, account-free Business Model Canvas / Lean Canvas / Value Proposition Canvas generator where users fill in canvas blocks directly in the browser and export to Word, PowerPoint, PDF, or PNG in one click, achieving a perfect 100/100 Lighthouse score across Performance, Accessibility, Best Practices, and SEO; live at thebusinessmodelcanvas.com
- Implemented zero-backend, client-side persistence (canvas data lives only in-browser) with JSON save/load for cross-device portability, four visual themes, and light/dark mode.
- Generated real editable exports rather than static images: the Word file renders as a genuine 5×2 table and the PowerPoint file as nine independently editable shapes on one slide.
- Within two weeks of launch, gained organic search visibility across 28 countries and all 7 language versions (EN, FR, ES, DE, ID, IT, PT), including a page-one average ranking (~9th position) for French-language queries per Google Search Console — an early signal of strong technical SEO.

Simple Kanban Board — Privacy-First Personal Task Manager (Personal Project, Pre-Launch) **2026**

Astro | TypeScript | Browser localStorage

- Building a zero-backend, privacy-first kanban board with Astro and TypeScript that persists all data to browser localStorage — no account, server, or database — with cross-tab sync and full offline capability after first load, achieving a perfect 100/100 Lighthouse score across Performance, Accessibility, Best Practices, and SEO; currently live at a testing URL ahead of launch: simplekanbanboard.pages.dev
- Implemented drag-and-drop and keyboard-accessible card management, WIP limits, undo history, and multi-format export (PNG, PDF, CSV, JSON, Markdown) alongside six live templates and worked examples for different workflows.

EXPERIENCE

Team Leader | UIHP Innovation Cohort 5 — Incubation Program **2024**

- Secured 40,000 BDT in pre-seed funding by leading a 4-person startup team selected as 1 of only 5 funded teams from 130+ applicants, delivering a functional MVP two weeks ahead of deadline.
- Won continued stakeholder investment by presenting product roadmap and MVP architecture to a panel of industry judges, enabling accelerated product validation.

Full-Stack Hackathon Developer | National Hackathons **2024 – 2025**

- Built and shipped 3 full-stack AI web apps solo within 24–48 hour hackathon windows across national competitions (InnovateX, SOLVIO AI, Infinity AI Buildfest), using Claude Code and OpenAI API–driven prompt chains for rapid scaffolding and deployment — placements listed under Key Achievements.

KEY ACHIEVEMENTS

Funding: 1 of 5 Teams Funded — UIHP Innovation Cohort 5 (130+ applicant teams; 40,000 BDT pre-seed grant)

Competition Wins: Winner — Build with AI, Hackdays @ RUET (2026); 1st Runner-Up — RCS Portfolio Hackathon, RUET Computing Society (2026); 2nd Runner-Up — Hult Prize at RUET (2026)

Hackathon Placements: Top 100 — VCP Challenge, Infinity AI Buildfest (Cloudcamp BD x BRAC University, 2026); Top 50 — InnovateX Hackathon (BUBT x Programming Hero); Top 50 — SOLVIO AI Hackathon (Sheba Platform); 13th Place — SciBlitz 2.0 National Hackathon, IEEE CUET Student Branch (2026)

Other Recognition: 7th Place — Research Poster Presentation, RUET

CERTIFICATIONS

- Associate AI Engineer for Developers — DataCamp (29 hrs, 10 courses, Aug 2026): OpenAI API & Responses API, Prompt Engineering, Hugging Face, LLMOps, Embeddings, Pinecone, LangChain, Model Context Protocol (MCP), Software Engineering Principles in Python
- Agentic AI — DeepLearning.AI: AI Agents, Multi-step Workflows, RAG Systems, Tool Use & Function Calling

ACTIVITIES & LANGUAGES

Organiser: Technocracy Lite — Intra-RUET Programming Competition & Hackathon (2026); RUET ECE Department Events (2025)

Other Involvement: Campus Ambassador — Televerse 1.0, CUET (2025); Volunteer — BDSET Job Fair at RUET (2026)

Languages: Bangla (Native) | English (Intermediate) | Hindi (Intermediate) | German (Beginner)