

ADI HADITYA NURSYAM

FULL-STACK SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Full-stack software engineer and ITB Mechanical Engineering graduate (GPA 3.90/4.00) building and operating production web and AI products. Strong across TypeScript/Next.js, backend and data architecture, cloud infrastructure, product ownership, and system design.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, MATLAB, C/C++

Full Stack: React, Next.js, Node.js, REST APIs, tRPC, Tailwind CSS, authentication, RBAC

Data & Cloud: PostgreSQL, SQLite/Turso, Drizzle, Prisma, IndexedDB, Cloudflare Workers/D1/R2/Vectorize, Docker, Inngest, GitHub Actions

AI & Quality: Gemini, RAG, vector search, MCP workflows, system design, testing, debugging, Git

EXPERIENCE

Founder & Lead Full-Stack Engineer (CEO) | Zyx Academy (zyxacademy.com) 2024 - Present

- Built and operate the production AI-enabled learning platform as primary engineer, owning product, frontend, backend, relational and vector data, cloud infrastructure, and authoring workflows.
- Delivered structured materials, question banks, assessments, spaced-repetition flashcards, progress tracking, analytics, and Zyra, a retrieval-backed AI tutor.
- Serve 30+ learners with 100+ learning materials across mathematics, science, and mechanical-engineering subjects; coordinate limited contributions from one collaborator.

Full-Stack Engineer & UI/UX Designer | Ikatan Alumni Mesin ITB (iamitb.org) Mar 2026 - Jun 2026

- Designed and built a responsive public website and Payload CMS with a reusable branded UI system spanning news, alumni, jobs, businesses, activities, gallery, and organization experiences.
- Implemented drafts and live preview, role-aware access, SEO, search, redirects, scheduled publishing, Turso/SQLite and S3/R2 media, plus Vitest and Playwright tests with Next.js 15, React 19, and TypeScript.

Head of IT Development / Full-Stack Engineer | HMM ITB Aug 2024 - May 2026

- Independently built and operated a typed learning and community platform unifying courses, assessments, events, discussions, forms, content, and administrative workflows.
- Delivered authentication, role-based access, relational data, storage, notifications, PWA capabilities, and tests with Next.js, TypeScript, tRPC, PostgreSQL, Prisma, Auth.js, Zod, and Vitest.

Head of Information Technology | PEMIRA KM ITB Nov 2023 - Apr 2024

- Led technical delivery for a team-built university election platform spanning authenticated workflows, typed APIs, relational data, administration, visualization, and Docker deployment.

SELECTED PROJECTS

Me-Bot - Local-First AI Personal Assistant 2026

- Built solo: IndexedDB-first offline capture and sync, Next.js APIs, D1/R2/Vectorize, Gemini triage, semantic memory, Google integrations, and encrypted personal-data workflows.

Two-DOF SCARA Robot 2026

- Built solo: ESP32 control firmware, shared telemetry, a Next.js/Web Serial HMI at 921,600 baud, and Python tooling for five reproducible experiment families.

EDUCATION & RECOGNITION

Bachelor of Engineering, Mechanical Engineering | Institut Teknologi Bandung Aug 2022 - Jul 2026

- GPA 3.90/4.00 | Mechanical Engineering Outstanding Student 2022 (one of three departmental students).