Nashiruddin Akram

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EDUCATION

Institut Teknologi Bandung | B.Sc. in Informatics (2024–2028)
GPA: 3.76/4.00
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Artificial Intelligence, Web Development, Computer Networks, Discrete Mathematics

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, TypeScript, SQL, Haskell, Prolog
Software: FastAPI, React, Node.js, Express.js, PostgreSQL, SQLAlchemy, Docker, REST APIs, Git, AWS EC2
AI/ML: RAG, LangGraph, LangChain, ChromaDB, Semantic Search, Embeddings, Langfuse

EXPERIENCES

ICS Compute
AI Engineer Intern | Python, FastAPI, LangGraph, ChromaDB, PostgreSQL — Jun 2026 – Aug 2026

- Built an internal RAG-based HR assistant for SOP and policy questions, with cited answers and linked form templates.
- Implemented context-aware conversations, semantic retrieval and feedback-based answer caching using LangGraph and ChromaDB.
- Developed Google Workspace sign-in, admin workflows and a React/TypeScript analytics dashboard; prepared Docker/EC2 deployment.
- Enabled employee self-service for recurring HR inquiries, with an estimated 40% reduction in manual HR questions.

Institut Teknologi Bandung
Computational Thinking Lab Assistant | Algorithmic Problem Solving, Debugging — Sep 2025 – Dec 2025

- Guided students in computational thinking, programming logic, structured problem-solving and debugging.

PROJECTS

DOMichelis: DOM Traversal Web App | TypeScript, Node.js, BFS/DFS, CSS Selectors

- Built a web application to parse HTML from URLs or pasted input and find matching DOM elements using CSS selectors.
- Visualized BFS/DFS traversals with execution logs, result filtering and summary statistics for easier debugging.

N-Queens with Coloring Constraints | C++, Express.js, Backtracking

- Implemented a C++ backtracking solver for N-Queens with additional coloring constraints and integrated it with an Express.js backend.
- Added live board updates and result export to support interactive visualization and testing.

Hospital Management System | C, Data Structures, CSV I/O

- Developed a CLI application managing patient records, user roles, diagnoses, prescriptions and inventory using custom ADTs.
- Implemented CSV-based persistence and structured data handling for core hospital workflows.

VOLUNTEER & ACTIVITIES

HMIF ITB
Career Development Staff — Oct 2025 – Present

- Supported career-development initiatives, mentoring and internship preparation for Informatics students.
- Prepared alumni interview outreach and career-oriented content for HMIF student publications.

IMPACT ITB
Treasurer — Apr 2025 – Jul 2025

- Managed event budgets, financial tracking and spending accountability.

ACHIEVEMENTS & CERTIFICATES

Awards: 2× Indonesian National Olympiad in Informatics Finalist; ICPC Asia Jakarta Regional 2025 Finalist; American Mathematics Olympiad Bronze Award
Certificates: AWS Certified Solutions Architect – Associate; AWS Certified AI Practitioner