

Bandung, Indonesia 40221 +62 823-2187-9086 santanamnaa8@gmail.com

PROFESSIONAL SUMMARY

A Computer Science and Data Science student at Bina Nusantara University (expected graduation 2026) with a strong passion for AI engineering, full-stack development and machine learning. Experienced in building Retrieval-Augmented Generation (RAG) applications using LLMs, vector databases and Python/JavaScript APIs. Eager to contribute as an AI Engineer by developing reliable, user-centered AI solutions.

WEBSITES, PORTFOLIOS, PROFILES

- santanamnaa.dev
- linkedin.com/in/santana-mena
- github.com/santanamnaa

SKILLS

- Languages & Frameworks: Python, JavaScript/TypeScript, Java, C/C++, Dart;
- React.js, Next.js, Node.js, Django, Streamlit,
- Flutter, Motoko.
- AI & ML: Model development, retrieval-augmented generation, embeddings & vector search, predictive analytics, prompt engineering.
- Databases & Cloud: MySQL, PostgreSQL, TiDB Cloud (VECTOR), Supabase; AWS; RESTful APIs; Docker, Git.
- Tools: Figma, Notion, Linux CLI, Firebase, Prometheus, Sentry.

EXPERIENCE

Business Analyst (Freelance), 06/2024

PT Gunung Amal Solutions Internasional - Bandung

Developed an Audit Trail Management System focusing on operational security and usability. Bridged communication between technical and business teams, translating user needs into clear system requirements.

Full Stack Developer (Intern), 02/2025 - 07/2025

PT Gunung Amal Solutions Internasional - Bandung

- Developed an Attendance Management System with real-time check-in/out, leave tracking and role-based access using React, TailwindCSS and Firebase.
- Built a Project Management System to streamline task assignments, progress tracking and team collaboration; leveraged Node.js, Express and cloud database integration.

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AI Developer/Full Stack Developer (Personal Project), 2025

RAG Agent with TiDB Cloud & DeepSeek - Bandung

- Designed and built an end-to-end Retrieval-Augmented Generation system that stores document chunks and 1024-dimensional embeddings in TiDB Cloud with a VECTOR(1024) data type.
- Developed an ingestion pipeline from CSV: splitting text into chunks, embedding using BAAI/bge-m3 (Sentence Transformers), and storing the resulting vectors in the vector database.
- Implemented a search_top_k function using the VEC COSINE_DISTANCE metric to find relevant context.
- Built a FastAPI for multi-turn chat sessions; the prompt combines retrieved context and conversation history, then calls the DeepSeek LLM via Ollama to generate answers.
- Developed a React/Vite frontend connected to the API; persisted the session_id in localStorage so conversations continue across sessions.
- Containerized the project with Docker and docker-compose to simplify deployment; added Prometheus metrics and optional Sentry integration for observability.
- Open-sourced the project on GitHub as a portfolio demonstrating skills in LLMS, RAG, vector databases, prompt engineering and API integration.

Full Stack Developer (Freelance), 2023-2025

Suma Barber, PT Aitiservice and other clients

- Developed and maintained web applications for clients in various industries using React.js, Next.js, Node.js and Supabase.
- Created online booking systems, dashboards and dynamic websites with responsive UIs and API integration.

EDUC

Bachelor of Science: Computer Science, Expected in 01/2026

Bina Nusantara University

Specialization: Data Science & Artificial Intelligence

Honors: Outstanding Student Award, Finalist of Duta Bahasa Jawa Barat 2023, participant in the ICPC Asia Jakarta National Contest, participant in the ICP Hacker House International Bali 2024, Record of Achievement Exploring SAP Analytics Cloud.

LEADERSHIP & ORGANIZATIONS

- Committee Member - APSKI International Conference on Entrepreneurship (APSKI-ICE) | May 2023.
- Committee Member - IN2FOOD International Student Competition | Aug 2023.
- Branding & Public Affairs Staf- BINUS English Club (BNEC) | Sept 2022-Sept 2023.
- Finalist & Speaker - Duta Bahasa Jawa Barat 2023; speaker at the German Language Workshop