

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

---

- [santanamena.com](https://santanamena.com)
- [linkedin.com/in/santana-mena](https://linkedin.com/in/santana-mena)
- [github.com/santanamnaa](https://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.

- Built a Project Management System to streamline task assignments, progress tracking and team collaboration; leveraged Node.js, Express and cloud database integration.

## **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.

## 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