

NATHANIEL CHRISTIAN

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Education Level

Institut Teknologi Bandung - Bandung, Indonesia
Bachelor of Computer Science, 3.82/4.00

- Activities: Robotics (ROS2, Computer Vision), HMIF – Student Association, Technology & Research.
- Course Assistant: WI1102-25 Computational Thinking.

Aug 2024 - Jul 2028 (Expected)

Work Experiences

Purple Box (Startup) - Italy [Remote]
AI Engineer Intern

- Built an enterprise Document RAG QA system using Ollama, Docker, Python, and Pinecone for internal knowledge access.
- Delivered a full RAG pipeline that reduced employee search time by ~35% and improved response accuracy by ~25% across teams.

Jan 2025 - Mar 2025

ITB Events - Bandung, Indonesia
Software Engineer
Sandbox 2.0 IEEE, TEDxITB, OSKM ITB 2025

- Architected and implemented full-stack solutions for multiple large-scale ITB event websites, handling registration, ticketing, and management systems that collectively served thousands of users.
- Backend Stack: Hono, Scalar, TypeScript; Frontend Stack: Next.js, Shadcn UI; Services: Prisma, PostgreSQL, Supabase, Posthog

Nov 2024 - Sep 2025

piowsee.ai - Indonesia
Founder, Developer

- Built various AI solutions, as a full-stack and AI developer.

Dec 2024 - Present

Home Credit - Indonesia [Remote]
Data Scientist Intern

- Developed multiple machine learning models for loan approval prediction and credit risk assessment, achieving 91% accuracy.
- Project-based internship through Rakamin Academy.

Mar 2024 - Apr 2024

Projects

AI CV Builder

- Shipped an AI-powered CV builder that generates professional resumes with content suggestions and rewrites, job-description-specific tailoring, and dynamic layouts—reducing resume creation time by ~50%.

Fire Detection System

- Built an AIoT product utilizing ESP32 sensors and YOLO-based computer vision, deployed via Streamlit with MongoDB integration.
- Final project from Samsung Innovation Campus, ranked top 20 out of 5,000+ participants.

Presidential Debate Sentiment Twitter Analysis

- NLP sentiment analysis on Twitter discussions about Indonesian election and its presidential candidates in 2024.

Skills, Achievements & Other Experience

- Certifications:** DeepLearning.AI TensorFlow Developer, Hugging Face AI Agent
- Languages:** Python, Typescript, C++, SQL, Javascript, Go, PHP, Java, C#
- Stacks:** Frameworks: Tensorflow, Keras, Torch, Next.js, React, Fast API, Flask, Tailwind CSS, Shadcn UI; Databases: PostgreSQL, MongoDB; Others: Docker, Supabase, Posthog, Ollama, Prisma, Drizzle, Stripe, Pinecone, LangChain, MLflow, Firebase
- Other Projects:** Telegram AI Agent, Valorant Live Score Browser Extension, Custom UI for Navidrome
- Achievements:** 2nd Place Technopreneur Universitas Padjadjaran, The Duke of Edinburgh's International Award Foundation Bronze Awardee