

Ahmad Nawawi

Software Engineer · React, TypeScript, Node.js & C++

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer (Cum Laude, Telkom University; Distinction Graduate, Bangkit Academy) specializing in real-time web, desktop, and simulation systems. Proven solo end-to-end delivery across **React**, **TypeScript**, **Node.js**, **Electron.js**, **C++**, and **Google Cloud**—focused on low-latency interfaces and reliable system architecture.

WORK EXPERIENCE

Software Engineer (Simulator Developer — React, Node.js & C++)

Oct 2024 – Present

PT. Falah Inovasi Teknologi South Jakarta, DKI Jakarta, Indonesia

Full-Stack R&D · React, TypeScript, Node.js, Electron & C++

- Delivered **60 FPS cockpit instruments**, interactive moving maps, and monitoring dashboards at **sub-16ms telemetry latency** for real-time aviation and tactical interfaces (React, TypeScript, Tailwind CSS).
- Automated scenario initialization, mission parameters, and live session controls through a desktop Instructor Operating Station (IOS), accelerating **R&D iteration and client demonstrations** (Electron.js, React).
- Solely architected and delivered the **end-to-end vertical stack**—from custom C++ plugins (X-Plane 12 SDK) to a Node.js real-time bridge (WebSocket, UDP/TCP, Electron IPC)—turning raw simulator streams into functional prototypes.

Cloud Computing Cohort & Capstone Team Lead

Aug 2023 – Jan 2024

Bangkit Academy led by Google, GoTo, and Traveloka Indonesia

*6 mos · **Distinction Graduate (Top Graduate)***

- Graduated with the highest **Distinction (Top Graduate)** honor across Google, GoTo, and Traveloka's Cloud Computing specialization, outperforming cohort benchmarks in backend and cloud engineering.
- Led a **6-member cross-functional team** (ML, Android, Cloud) through agile sprints and system integration to ship the FeedPicker AI capstone platform on schedule.

Front-End Web and React Developer

Aug 2022 – Dec 2022

Dicoding Indonesia Indonesia

5 mos · Kampus Merdeka Certified Independent Study

- Completed the **SIB Kampus Merdeka** intensive engineering program, shipping responsive React web applications verified through strict industry code reviews.
- Earned the advanced **Becoming a Front-End Web Developer Expert** certification validating production frontend architecture and accessibility standards.

PROJECTS

Distributed Aviation SAR Mission Console

2025 – Present

Solo Full-Stack Engineer *Internal R&D*

- Built a **multi-rig LAN mission dispatcher** linking an Instructor PC to trainee simulator stations for real-time Search & Rescue (SAR) scenario deployment, live Leaflet tracking, and cockpit intervention (Electron, React, TypeScript, SQLite).
- Engineered a native **C++ Win32 Station Agent** and X-Plane 12 SAR plugin exchanging JSON missions and telemetry over REST API and UDP, eliminating manual per-station setup during demos.

AksaraCV — Indonesian ATS CV Builder

2025 – Present

Creator & Full-Stack Engineer *Personal Project*

- Eliminated download paywalls for Indonesian job seekers by shipping a **watermark-free A4 CV builder** with real-time Harvard/ATS print preview and instant PDF/DOCX export (Next.js, React, TypeScript, Tailwind CSS).
- Implemented a **deterministic 0–100 ATS scorer**, keyword gap matcher, and Indonesian AI co-writer backed by strict schema validation (Zustand, Zod) and mobile-first split-pane editing.

FeedPicker — AI Customer Feedback Analytics

Aug 2023 – Jan 2024

Team Lead & Cloud Engineer *Bangkit Capstone (Distinction)*

- Enabled Indonesian SMEs to analyze and summarize customer sentiment automatically via secure **RESTful APIs** and LSTM machine learning inference (Node.js, Hapi.js, SQL).
- Automated containerized deployment and scaling on **Google Cloud Platform** (Cloud Run, App Engine, Compute Engine, Cloud Storage, Cloud Build CI/CD) supporting reliable Android and ML integration.

EDUCATION

Bachelor of Computer Science (S.Kom) in Software Engineering — *Sep 2020 – Jul 2024*

Telkom University (Institut Teknologi Telkom Purwokerto) — Purwokerto, Central Java, Indonesia

- Majored in **Software Engineering** with a **GPA of 3.72 / 4.00** — graduated with the highest academic honor: **Cum Laude**.
- **Relevant Coursework:** Software Engineering, Distributed Systems Architecture, Cloud Computing, and System Design.

LEADERSHIP & ORGANIZATIONS

Founder & Chairman — *Jul 2023 – Oct 2024*

Wibu Community of Telkom University Purwokerto — Purwokerto, Central Java, Indonesia

1 yr 4 mos · Community Leadership & Management

- Founded and scaled an official student community to **211 registered members**, establishing governance (AD/ART, SOPs), directing a Japanese Culture & Career Seminar, and forging a partnership with STMIK Widya Utama Purwokerto.
- Architected and administered a Linux VPS community server migrated from **Microsoft Azure to GCP**, sustaining reliable uptime for **68 registered players** and **5–8 daily active users**.

Head of Legislative Body — *Jul 2023 – Jul 2024*

DPM SE ITTP (Student Representative Council) — Purwokerto, Central Java, Indonesia

1 yr · Student Governance & Legislation

- Established the **first departmental legislative body** for Software Engineering at ITTP, formalizing student governance.
- Chaired parliamentary sessions and student assemblies to ratify **departmental regulations and annual budgets**.

President — *Jun 2022 – Jul 2023*

Software Engineering Student Association (HMSE) — Telkom University Purwokerto — Purwokerto, Central Java, Indonesia

1 yr 2 mos · Organizational Leadership

- Directed **43 officers across 6 departments** to deliver **30 programs at an 83.33% completion rate**—including 26 Ngoprek technical workshops and 9 SERABI social initiatives with Dompet Dhuafa.
- Steered official regional integration into **PERMIKOMNAS Wilayah VII Central Java** and standardized cross-departmental legal drafting (AD/ART and SOPs).

SKILLS

TOOLS & TECHNOLOGIES

JavaScript · TypeScript · C++ · Python · React.js · Next.js · Node.js · Electron.js · Hapi.js · REST APIs · WebSocket · Tailwind CSS · Zustand · Zod · HTML · CSS · Google Cloud Platform · Google Cloud Run · Microsoft Azure · SQL · MySQL · SQLite · VBS4 · Linux · Shell Scripting · Git · GitHub

INDUSTRY KNOWLEDGE

Agile Methodologies · DevOps Foundations · System Integration · Software Testing · User-centered Design · Strategic Planning · Strategic Partnerships · Risk Management · Operational Frameworks · Community Management · Event Management · Institutional Relations

SOFT SKILLS & INTERPERSONAL

Problem Solving · Critical Thinking · Take Ownership · Attention to Detail · Communication · Teamwork · Leadership · Project Management · Adaptability · Time Management · Growth Mindset · Willingness to Learn · Public Speaking

LANGUAGES

Bahasa Indonesia (Native) · English (Professional Working Proficiency)

CERTIFICATIONS

Learn C++ — Codecademy — *Sep 2024*

C++ Fundamentals — Skilvul — *Sep 2024*

Cloud Computing Graduate (Distinction) — Bangkit Academy led by Google, GoTo, and Traveloka — *Jan 2024*

Getting Started with Python Programming — Dicoding Indonesia — *Jan 2024 – Jan 2027*

System Administration and IT Infrastructure Services — Google (Coursera) — *Oct 2023*

The Bits and Bytes of Computer Networking — Google (Coursera) — *Aug 2023*