Ardana Aldhizuma Nugraha
Software Engineer | Full Stack Engineer

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PERSONAL PROFILE

- Outstanding Computer Science (GPA: 3.94/4.00) with over two years of hands-on experience in software engineering and machine learning.
- Proficient in Python, JavaScript/TypeScript, and Java.
- Proven leadership and mentorship experience, with a track record of guiding teams and coordinating projects effectively.
- Highly adaptable to various work environments, including on-site, hybrid, and remote, with strong collaboration and communication skills.
- Proven ability to manage multiple technical projects simultaneously and deliver results efficiently.
- Strong written and verbal communication skills in English.

WORK EXPERIENCES

PLN Icon Plus   **On Site | Indonesia**
Software Engineer   **Mar 2024 - Present**

- Developing GRITA, an Advanced Distribution Management System (ADMS) for PLN's power grids using Event-Driven Architecture.
- Building microservices that connect 500+ field devices via Modbus TCP, IEC104, and ICCP protocols, processing millions of real-time data points within milliseconds.
- Creating web-based server simulators for Modbus TCP and IEC104, enabling comprehensive testing and validation.
- Collaborating with frontend developers to integrate high-performance real-time dashboards for monitoring and control.
- Managing deployment and containerization using Docker and Kubernetes on-premises.

Tech Stack: Python, Typescript, Java, React, FastAPI, Spring Boot, SocketIO, PostgreSQL, Kafka, Linux, Docker, Kubernetes.

Dicoding Indonesia   **Remote | Indonesia**
Backend Engineer Mentor   **Nov 2024 – Apr 2025 | May 2023 – Nov 2023**

- Successfully Mentored 70+ students in intermediate and expert-level backend development.
- Led 20+ weekly progress review meetings, troubleshooting complex issues, optimizing system designs, and ensuring learning objectives were met.
- Achieved a 4.47/5 facilitator rating in the first batch, ranking among the top mentors.
- Provided lessons on backend technologies, architecture, and best practices, equipping students with industry-ready skills.

Topics Covered: Node.js, Hapi.dev, PostgreSQL, Redis, RabbitMQ, GitHub Action, Nginx, OpenAPI, AWS.

Dicoding Indonesia – Bangkit Academy   **Remote | Indonesia**
Machine Learning Mentor   **Feb 2024 – Aug 2024**

- Mentored and guided 25 students through an intensive machine learning curriculum, weekly meetings, resulting in an exceptional graduation rate.
- Designed and facilitated engaging Instructor-Led Training sessions, covering advanced topics in machine learning, data analysis, AI applications, and soft skills.
- Provided personalized feedback and support to students, helping them overcome challenges and excel in their projects.

Tech Stack: Python, Excel, TensorFlow.

PT Bank Negara Indonesia (Persero) Tbk.   **Hybrid | Indonesia**
API Developer Intern   **Aug 2023 – Dec 2023**

- Developed BNI's Policy Maker, a low-code platform (draw.io like) that enables internal developers to efficiently create, manage, and deploy APIs within the bank's ecosystem.
- Designed and implemented a drag-and-drop interface, streamlining API creation for non-technical users.
- Achieved a perfect completion score of 90 (A).

Tech Stack: TypeScript, Next.js, Konva.js, Express.js, MongoDB.

Intelligent Computing & Software Engineering Laboratory ITPLN   **On Site | Indonesia**
Laboratory Assistant   **Aug 2021 – Feb 2024**

- Selected as **coordinator** since March 2023, leading and managing a team of 24 assistants while overseeing the laboratory's day-to-day operations.
- Assisting lecturers in teaching various courses, supporting 30–40 students per class.
- Providing over 10 hours per week of direct assistance to students, addressing their questions, debugging code, and helping them apply theoretical concepts.
- Maintaining and troubleshooting hardware, software, and tools in two laboratories, ensuring seamless operation for 250+ students each semester.

Courses Covered: Web Programming, Object-Oriented Programming, Database, Machine Learning

EDUCATION

PLN Institute of Technology   Indonesia
Bachelor's Degree - Computer Science (GPA: 3.94/4.00)   2020 - 2024

TECHNICAL SKILLS

- Programming Languages   : JavaScript, TypeScript, Python, Java
- Backend   : Node.js, Express.js, Hapi.dev, Spring Boot, Fast API, Flask, PostgreSQL, MongoDB, Kafka, RabbitMQ, Redis, Nginx
- Frontend   : React.js, Next.js, HTML, CSS
- DevOps   : Git, Bash Scripting, Docker, Linux, GitHub Actions
- Cloud   : Amazon Web Service (AWS), Azure
- AI & ML   : TensorFlow, ChatGPT, Claude, GitHub Copilot
- Community & Collaboration : Discord, Telegram, Notion
- Methodologies   : Agile, Scrum, Waterfall, Kanban

BOOTCAMP AND LEADERSHIP EXPERIENCES

Google Developer Student Clubs ITPLN   **Indonesia**
Core Team - Community Development   **Sep 2023 – Jun 2024**

- Designed curriculum and syllabus for study jams and workshops.
- Delivered some engaging lectures on web development basics to 50+ members.
- Collaborated with 10+ other core team members to strengthen the community and organize impactful events.

Core Team - Publicity Lead   **Sep 2021 – Jun 2022**

- Initiated and managed the @gdsc.itpln Instagram account, which resulted in more than 300 followers
- Found and secured top-tier speakers or mentors to elevate the quality of events, such as workshops.
- Oversaw content sharing, promotions, and public relations, resulting in increased awareness and engagement.

Generasi Gigih 3.0   **Indonesia**
Full Stack Engineering Student   **Jul 2023 – Dec 2023**

- Built HijauSantara, a web application focused on mapping green spaces in Surabaya, as the final project.
- Developed and deployed a website using React.js, Node.js, Express.js, MongoDB, Docker, and deployed on Google Cloud Platform (GCP).
- Improved English proficiency via Cakap's IT Communication course, engaging in 10+ speaking sessions.

Bangkit Academy led by Google, GoTo, and Traveloka   **Indonesia**
Machine Learning Student   **Feb 2023 – Jul 2023**

- **Best Graduate with Distinction**, placing in the top 10% among more than 5000 students.
- Developed an image classifier using Transfer Learning (InceptionV3) and a FastAPI RESTful API, integrating it with an Android app and Google Cloud.
- Passed the TensorFlow Developer Exam and earned 5 Coursera specializations in ML, data analytics, and mathematics.

CERTIFICATIONS AND COURSES

- Microsoft Azure AI Fundamentals   Jan 2024
- English for Business Communication in IT Field - Cakap   Oct 2023
- TensorFlow Developer   Sep 2023
- Backend Engineer Expert - Dicoding   Feb 2023
- Architecting on AWS - Dicoding   Nov 2022
- Microsoft Office Specialist: Excel   Mar 2022
- CS50 Intro to Computer Science - Harvard University   Dec 2021

LANGUAGES

- English   : C1 Advanced
- Bahasa Indonesia   : Native