

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 Software Engineer

On Site | Indonesia
Mar 2024 - Present

- Building GRITA, an Advanced Distribution Management System (ADMS) for PLN's power grids.
- 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, Docker, Kubernetes.

Dicoding Indonesia Backend Engineer Mentor

Remote | Indonesia
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
Machine Learning Mentor

Remote | Indonesia
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.
API Developer Intern

Hybrid | Indonesia
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
Laboratory Assistant

On Site | Indonesia
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.
- Dedicated 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
Bachelor's Degree - Computer Science (GPA: 3.94/4.00)

Indonesia
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 & Cloud : Git, Bash Scripting, Docker, Linux, GitHub Actions, AWS
- AI & Machine Learning : TensorFlow, ChatGPT, Claude, GitHub Copilot

BOOTCAMP AND LEADERSHIP EXPERIENCES

Google Developer Student Clubs ITPLN Core Team - Community Development

Indonesia
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](https://www.instagram.com/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 Full Stack Engineering Student

Indonesia
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 Machine Learning Student

Indonesia
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

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| • 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

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|--------------------|---------------|
| • English | : C1 Advanced |
| • Bahasa Indonesia | : Native |