

KADEK NANDANA TYO NAYOTAMA

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Portfolio: <https://www.nandanatyo.com/assets/portfolio.pdf>

WORK/VOLUNTEER EXPERIENCE

Backend Back-Office Engineer Intern PT Sineas Kreatif Indonesia

Feb – May 2025
Yogyakarta, Central Java

- Developed and managed backend APIs for the film distribution platform SineasHub and OTT service SineasMov, improving system performance and scalability. APIs handled up to 10,000 requests per minute with an average latency of under 200 ms.
- Implemented microservices architecture using NestJS, introducing modular solutions that enhanced system maintainability and scalability. This approach reduced feature development time by 30%.
- Collaborated with the development team to integrate the system with AWS S3 for content storage and distribution, increasing content delivery speed by 40%.
- Designed and implemented JWT authentication, enhancing application security and reducing unauthorized access incidents by 50%.
- Optimized data queries and management using MySQL and ElasticSearch, improving data retrieval speed and API query performance. Query response time decreased by an average of 25%.
- Ensured application performance through monitoring and metrics collection using Grafana and Prometheus, enabling proactive issue detection and reducing downtime by 15%.
- Established and implemented a CI/CD pipeline, streamlining development and deployment processes, ensuring faster and more reliable feature delivery and updates. Deployment time was reduced by 50%.
- Conducted backend testing and debugging using Docker for isolated and consistent development environments, improving development efficiency and reducing environment conflicts.
- Enhanced user experience by integrating payment gateways for digital transactions and film subscription payments, increasing new user conversion by 20%.

Tech stacks: NestJS, Typescript, AWS, Docker, MySQL, Elastic Search, Grafana, Prometheus, CI/CD, Kubernetes.

Fullstack Web Developer UNIKAHIDHA Website Project

Nov – Dec 2024
Malang, East Java

- Developing Control Management System Interface for UNIKAHIDHA's website system.
- Developing Restful API backend for UNIKAHIDHA's system logic.
- Deploying UNIKAHIDHA's website.

Tech stacks: NextJS, InertiaJS, React, Tailwind CSS, Laravel, Docker, Redux, Material UI, OpenAPI.

Mentor of Web Development Google Developer Groups on Campus

Aug – Sept 2024
Malang, East Java

- Foster a collaborative learning environment through peer-to-peer sessions and one-on-one mentoring for 300+ students, providing personalized guidance in web development
- Lead specialized sharing session and provide hands-on technical guidance on Google Technologies, focusing on Golang development and REST API implementation, enabling students to develop practical industry skills.

Tech stacks: Golang, Google Cloud, Firebase, React, HTML, CSS, JavaScript, Flutter, Angular, Vue, AIGoogleStudio (Gemini Integration).

Backend System for Brawijaya Appreciate Event Work Program of the Ministry of Home Affairs Student Executive University of Brawijaya

Aug – Sept 2024
Malang, East Java

- Designing relational database for Brawijaya Appreciate system
- Developing approximately 90% of the backend system used by all Brawijaya University students (around 50,000 users).
- Creating robust APIs to handle high-traffic demands and ensure data integrity.
- Implementing optimized database indexing and query management to improve system efficiency and response times using SQLX.
- Ensuring transactional accuracy using the ACID principles to maintain data consistency during high-volume operations.
- Applying secure authentication and authorization for user data and event registration.

Tech stacks: Golang, Fiber, PostgreSQL, Git, SQLX.

Backend System for Jegeg Kebaya Boutique Freelance

June – August 2024
Singaraja, Bali

- Designing relational database for Jegeg Kebaya Boutique system.
- Developing Restful API backend and Clean Code.

- Making Front end site for login and register user.
- Implementing ACID concept on database to ensure that the transaction goes through completely or not at all so that it is executed correctly and safely.

Tech stacks: Golang, Gin, MySQL, Git, Redis.

Backend Engineering Intern
Basic Computing Community FILKOM

Feb 2024 – Mar 2025
Malang, East Java

- Designing relational database for Includemy system.
- Developing Restful API backend for main and support features that Includemy has.
- Implement payment gateway for micro transactions in Includemy.

Tech stacks: Golang, PostgreSQL, Fiber, Gin, GORM, Docker, Nginx.

SKILLS & INTERESTS

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| Front-end Development | - Programming Languages: TypeScript, HTML, CSS, Javascript |
| | - Frameworks & Libraries: Next.JS, React, Material UI, Redux, Vue, Angular |
| Back-end Development | - Programming Languages: Golang, Java, TypeScript, PHP, JavaScript |
| | - Frameworks : Fiber, Springboot, Nest.JS, Express.JS |
| | - Architecture : Clean Architecture, DDD, Microservices |
| | - Authentication : JWT, OAUTH 2.0 |
| | - Design Pattern : SOLID, Dependency Injection, Singleton |
| Power Platform & RPA | - Power Platform : Power Apps (Canvas & Model-Driven), Power Automate, Power BI, Power Virtual Agents |
| | - RPA : Developing business process automation using Power Automate Desktop |
| | - Integrasi : Integration with Microsoft 365, SharePoint, Dynamics 365, and Azure Logic Apps |
| | - Azure AI Services : Integration with Azure Cognitive Services for natural language processing and image analysis |
| Database Management: | - Relational Databases : PostgreSQL, MySQL, MongoDB |
| | - Search Engines : ElasticSearch |
| | - ORMs : GORM, TypeORM |
| | - Object Storage : S3, Supabase |
| Cloud & DevOps: | - Cloud Platforms : AWS (S3, Lambda, RDS), Google Cloud Run |
| | - Containerization : Docker |
| | - CI/CD Tools : GitLab CI, Jenkins |
| | - Monitoring : Grafana, Prometheus |
| Development Practices: | - Code Quality : Clean Code, Test-Driven Development(TDD) |
| | - Version Control : Git |
| | - Agile Methodologies : Scrum, Kanban |
| Documentation: | - Tools : Postman, OpenAPI Swagger |

EDUCATION

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| Informatics Engineering Universitas Brawijaya | Aug 2023 – Present GPA: 3.96/4.00 |
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AWARDS

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| Best Performance Individual ARKAVIDIA Software Engineer Academy | Mei 2025 Institut Teknologi Bandung |
| ARKAVIDIA Software Engineer Academy is an intensive bootcamp organized by the Informatics Student Association (HMIF) at Institut Teknologi Bandung (ITB), designed to equip participants with practical and in-depth knowledge in software engineering. Throughout the program, I delved into key topics such as MVC and Clean Architecture, Security Best Practices, Frontend Frameworks and their approaches, Responsive Design and Layout, Service Orchestration, and Quality Analysis. This comprehensive curriculum provided me with a solid foundation in modern software development practices, enhancing my skills in building structured, secure, and user-friendly applications, and preparing me to tackle real-world challenges in the tech industry. | |

**2nd Place Winner in Student Creativity Proposals
Innovative Creation Contest (Dekan Cup PKM-KI)**

**Dec 2023
Universitas Brawijaya**

PKM-KI, or Innovative Work Student Creativity Program, is a program that aims to solve society's problems using technology or real, functional work. This program is designed to increase students' sensitivity to factual problems in society and the business world, as well as to hone students' creativity in producing innovative science and technology-based works.

Certification

**AWS Certified Cloud Practitioner
Issued by Amazon Web Services Training and Certification**

Oct 2024 - Oct 2027

Earners of this certification have a fundamental understanding of IT services and their uses in the AWS Cloud. They demonstrated cloud fluency and foundational AWS knowledge. Badge owners are able to identify essential AWS services necessary to set up AWS-focused projects.

**Cloud Practitioner Essentials (Belajar Dasar AWS Cloud)
Issued by Dicoding**

Sep 2024 - Sep 2027

The class is intended for beginners who want to start their career in cloud computing by referring to AWS's international competency standards. At the end of the class, students can understand AWS Cloud with all types of services, global infrastructure, and prices.