

Nasywa Syifa Azizah

Kobe, Japan | P: +62 877 16316356 (INA) +81 70 8597 8556 (JP) | nsyifa80@gmail.com
www.linkedin.com/in/nasywa-syifa-azizah-6861bb21b | github.com/nsyifa | nasywa.dev

EDUCATION

UNIVERSITAS GADJAH MADA

Bachelor of Computer Science

Major in Computer Science

GPA: 3.95/4.0 · 2nd highest in Computer Science graduating year

Sleman, Indonesia

August 2021 - August 2025

KOREA UNIVERSITY

Exchange Student

Seoul, South Korea

September 2023 - December 2023

As Indonesian International Student Mobility Awards (IISMA) 2023 Scholarship Awardee

GPA: 4.5/4.5 · Highest final grade in Human-Computer Interaction, Fall 2023

EXPERIENCE

TELAAXON

Software Engineer

Kobe, Japan

November 2025 – Present

Architected and maintained highly scalable enterprise systems spanning telecommunications, AI integration, identity management, and serverless architectures.

Telecom & Infrastructure - SIP PBX system serving 100+ home improvement stores (Asterisk, Rails, Flutter, Twilio)

- Cut fetch/filter time for a 2M-record voice API from 30+ seconds to 1 second via database indexing, SQL optimization, and N+1 query fixes
- Upgraded Asterisk 18→22 across the SIP PBX and migrated core dev servers from Amazon Linux to Ubuntu, including Nginx reconfiguration, Python 2→3 upgrades, and AWS RDS migration
- Built Ansible playbooks to batch-deploy configs, SQL updates, and service changes across 100+ stores, reducing per-store deployment time and effort by 60%
- Diagnosed and resolved 4+ critical bugs in the Twilio-based development environment, including one-way RTP audio dropouts, call-transfer failures, and duplicated SIP invites — preventing escalation to production
- Architected group transceiver calls end-to-end, from API spec through Rails backend and Asterisk AGI/dialplan logic

Identity Management & Security - Corporate phonebook for a major JP Telecom company (Flutter, Keycloak, AWS)

- Deployed tenant certificate authentication (mTLS) end-to-end via AWS ALB, including secure staging trust-store configuration and support for multiple secure ALB hosts
- Designed and deployed a session limiter system with Keycloak, implementing per-action token state checks across backend and app
- Investigated and resolved Keycloak/auth production incidents, including unauthorized password-API errors and forced logout/session-reset issues, tracing root causes using user, device, and timeline evidence
- Standardized password policy enforcement across two backend APIs by dynamically mapping Keycloak rules, covering manual and CSV user-creation flows
- Implemented and deployed Hiragana/Katakana contact sorting logic and diagnosed iOS vs. Android sort discrepancies, while resolving contact duplication issues from VCF imports
- Delivered 10+ UAT feature tickets spanning backend model/serializer changes, including Elasticsearch search improvements, call log source types, URL/name-field validation, and API response fallbacks for tenant and branch info
- Patched a Rails ActiveStorage security vulnerability across dev and staging, and led a zero-error production deployment, improving on the prior release's 3+ major errors

AI System Architecture - AI-powered customizable beverage vending machine PoC

- Built a NestJS/Prisma/PostgreSQL API, deployed on AWS EC2 with custom domain and Let's Encrypt SSL
- Integrated Gemini LLM with Japanese-language prompt engineering to recommend beverages from flavor/fragrance inputs
- Developed the Flutter frontend, mapping LLM responses to state management (Provider/Riverpod) with loading animations

Serverless Backend & Observability - Mental/physical health survey backend

- Developed 90% of the core Python/FastAPI backend and its testing suite, including User Consents APIs, Admin Management APIs, and centralized database transaction managers
- Architected an automated AWS Lambda batch notification pipeline using Python (FastAPI/Mangum), Amazon SQS, and FCM V1 for age-based cohort messaging
- Built CI/CD pipelines with GitHub Actions to build Docker images and deploy to AWS Lambda via the Lambda Runtime Interface Client
- Automated Alembic migration checks via GitHub Actions (dry-run on PRs, auto-apply on merge), reducing manual testing time by 50% and catching 2+ errors pre-deployment
- Enhanced backend security by migrating from symmetric key validation to Cognito JWKS-based JWT validation with RSA signatures

PT. BARACIPTA ESA ENGINEERING (BEECONS)

Kota Yogyakarta, Indonesia

Full Stack Developer Intern (MSIB)

February 2024 – June 2024

- Responsible for version update of the architectural design marketplace website RumahTinggal.id along with its admin website using PHP 7, CodeIgniter 3, and Bootstrap 5, working with UI/UX designer intern and two mentors.
- Responsible for UI design and implementation of Inkindo Jogja's membership display update of the InkindoJogja.org website using PHP 8, Laravel, and Figma, working under two mentors.
- Key software features: architectural design plans display (floor plan, design pictures, design documents, etc.), filtering and searching, assessment systems, external API services in payment and user notifications, MySQL database, CRUD processes, Jira for Agile development cycle.

PT. GOTO GOJEK TOKOPEDIA

Remote

Data Scientist Intern

September 2024 – November 2024

- Responsible for large-scale data collection to be used in an Indonesian large language model (LLM), working as a team with two fellow interns, and as a division with six other interns under GoTo Financial.
- Key activities: web crawling and scraping, web archive conversion and management, token estimation

ORGANIZATIONS AND ACTIVITIES

GADJAH MADA AEROSPACE TEAM

Sleman, Indonesia

Software Programmer

November 2022 – Present

- Designed and implemented the frontend design and logic of the canned satellite system's web-based ground control station software for the US CanSat 2023 competition using Tailwind CSS and React.JS and utilizing libraries such as Leaflet and Apache Echarts.
- Key software features: real time data display using charts and tables, map and GPS of the satellite, database system for flight records and data.
- Achieved 100/100 in the CanSat 2023 scoresheet for the software system.
- Used the Agile development method to keep up with the 12-person team's changing requirements.

Narantaka Team Captain

November 2023 – Present

- Led a team of three software programmers, assisted by a team manager in the 5th Kibo Robot Programming Competition, responsible for planning the workload management and designing, developing, and testing the image processing algorithm for the Java program.
- Key program features: object detection system to recognize and count objects using conventional image processing algorithms, SIFT, Hu moments shape matching, hand-crafted heuristics
- Program yielded 94% type matching accuracy and 90% overall accuracy in a test dataset of 729 images.
- Achieved 4th place at the regional (UNOOSA) qualification round out of 54 teams from 23 countries.

ADDITIONAL

Technical Skills:

- Languages: Python, TypeScript, JavaScript, Dart, Ruby, PHP, Java, C++, HTML/CSS, Bash/Shell
- Backend & APIs: Ruby on Rails, NestJS, Node.JS, Express, FastAPI, CodeIgniter, Laravel, OpenAPI/Swagger
- Frontend & Mobile: React.JS, Next.JS, Tailwind CSS, Bootstrap 5, Flutter
- Cloud & AWS Services: AWS EC2, AWS RDS, AWS Lambda, AWS ECS, AWS ECR, AWS SQS, AWS ALB, Amazon S3, AWS CloudWatch

- DevOps & CI/CD: Docker, Docker Compose, GitHub Actions, Ansible, Nginx, Linux (Ubuntu, Amazon Linux), Jira
- Databases & ORMs: PostgreSQL, MySQL, SQLite, MongoDB, Prisma, SQLAlchemy, Alembic, Redis, Elasticsearch, Chewy Security & Auth: Keycloak, AWS Cognito, JWT (JWKS), OpenSSL, mTLS, OAuth workflows
- Telecommunications & Networking: Asterisk (AGI, ARI, AMI), SIP Signaling, WebRTC, VoIP integration
- AI & Machine Learning: PyTorch, TensorFlow, OpenCV, Image Feature Processing, Object Detection, Transformer-based Models
- Observability: AWS Lambda Powertools, Sentry

Languages:

- Native in Bahasa Indonesia
- Fluent in English ([160/160 score in Duolingo English Test](#))
- N2 in Japanese (129/180, B2 in CEFR Level)

Portfolio:

https://drive.google.com/file/d/1ZEcgLk_PP709khy8g7lIW-4seI1DVYO5/view?usp=sharing