

AWAL ARIANSYAH

Backend Engineer - OCR and Computer Vision Systems

Author of an OCR SDK with 75,000+ npm downloads a month. OCR product in production at 2 client companies.

Jakarta, Indonesia (UTC+7). Open to remote roles. Notice period: 1 month.

awalariansyah7@gmail.com | github.com/snowflake | linkedin.com/in/awalariansyah | awala.my.id

EXPERIENCE

PT. Perkasa Pilar Utama, B2B enterprise IT vendor | Jakarta Utara, Indonesia

Backend Engineer and Team Lead, custom software division | Oct 2023 - Present

- Lead a team of 3 engineers in the custom software division, train new engineers, and direct the AI experiment team in LLM and computer vision work.
- Architected and developed Oksara, the company OCR product, end to end in TypeScript, Bun, and ONNX Runtime. It runs in production at 2 client companies and extracts data from 5 document types: national ID cards, vehicle ownership books, receipts, resumes, and bank statements.
- Open-sourced the OCR and image processing core of Oksara as ppu-paddle-ocr and ppu-ocv. Each package now has 75,000+ npm downloads a month.
- Engineered a payment reconciliation platform, now in production, in Go with 3 services (API gateway, scheduler, data collector) on PostgreSQL, RabbitMQ, and Redis, monitored with Prometheus and Grafana.
- Built an R&D prototype (Mar - Sep 2024): an Android app in Kotlin that sends encrypted, compressed messages over LoRa long-range radio without internet.

PT. BPR Bank Cirebon Jabar (Perseroda), regional bank | Cirebon, Indonesia

Mobile Frontend Developer (3-month contract) | Dec 2022 - Feb 2023

- Designed and prototyped a mobile banking app with 40+ screens in Figma.
- Implemented the app for Android and iOS in React Native, integrated it with the bank backend, and shipped it to the bank's customers.

PT. Langitpay Digital Indonesia, digital payments | Cilacap, Indonesia

Backend Developer Intern | 2022

- Migrated a SQL-based monolithic web app to a NoSQL-based web app.

OPEN SOURCE (npm and GitHub numbers as of Sep 2026)

- **ppu-paddle-ocr**: created a PaddleOCR SDK in TypeScript for Node.js, Bun, Deno, browsers, and React Native. 75,000+ npm downloads a month, 185,000+ in total, 136 GitHub stars, 35 releases. Reads a receipt in about 140 ms at 99.5% character accuracy on the published benchmark.
- **ppu-ocv**: created a chainable image processing library on OpenCV.js. 76,000+ npm downloads a month.
- **ppu-yolo-onnx-inference**, **ppu-pdf**, **ppu-doclayout**, **ppu-uniface**: published TypeScript libraries for object detection, PDF text extraction, document layout analysis, and face recognition.
- **testate**: shipped a snapshot and restore tool for test databases with Hono and SolidJS.
- **indo-g2p**: wrote an Indonesian grapheme-to-phoneme converter for text-to-speech, with zero dependencies.

EDUCATION

STMIK Komputama Majenang, Bachelor's Degree in Informatics Engineering | Jan 2019 - Dec 2023

- Won 1st place in the Techcomfest 2022 Software Development Competition (Politeknik Negeri Semarang), and 2nd and 3rd place in two other university technology competitions.

SKILLS

Languages: TypeScript, JavaScript, Go, Python, Kotlin, SQL

Backend: Bun, Node.js, Hono, Elysia, Fiber, Express, REST and OpenAPI, WebSocket, microservices

Data: PostgreSQL, MongoDB, SQLite, Redis, RabbitMQ, Drizzle ORM, S3

Vision and AI: ONNX Runtime, PaddleOCR, YOLO, OpenCV.js, face recognition, WASM SIMD, LLM bots, MCP servers

Frontend and mobile: React, Next.js, SolidJS, Tailwind CSS, React Native, Android with Kotlin, Figma

Operations: Linux, Docker, GitHub Actions, Nginx, Prometheus, Grafana, Loki

Spoken languages: Indonesian (native), English (fluent)