Benedictus Sebastian Aria Pratama

Software Engineer

Bogor, Indonesia | benedictus.sebastian5@gmail.com | LinkedIn | GitHub | Portfolio

SUMMARY

Software engineer who ships whole products, from Postgres schema and edge infrastructure to the last screen: an ML forecasting marketplace, a real-time multiplayer game backend on Cloudflare, and a Japanese learning app on web and mobile. A business degree keeps every feature tied to a user need.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Lua
Backend & cloud: Cloudflare Workers, Durable Objects, D1, R2, FastAPI, Hono, Supabase, PostgreSQL, Firebase, Docker, WebSockets
Frontend & mobile: React, React Native, Expo, Vue, Vite, Tailwind CSS, Three.js, PWAs
Data & AI: XGBoost, scikit-learn, Pandas, Gemini API, structured JSON extraction
Spoken languages: Indonesian (native), English (fluent), Japanese (conversational)

PROJECTS

SnackTrack | Technical Lead, Full Stack & ML 2025 – 2026
demo-snacktrack.conradium.my.id | Python, XGBoost, FastAPI, Supabase, React, TypeScript, Vercel Edge, Midtrans

- Engineered per-product XGBoost forecasts on Indonesian market signals (public holidays, payday week, lagged and rolling sales), with a mean fallback under three weeks of history so every product always gets a number.
- Fronted a Pterodactyl-hosted FastAPI service with Vercel Edge Functions that verify Supabase JWTs and fail over to a backup host after a 15-second timeout.
- Integrated Midtrans Snap (QRIS, bank transfer, e-wallets) alongside cash on delivery, verifying every webhook's SHA-512 signature before an order changes state.

AimFlicks | Co-Developer: Multiplayer, Progression & Engine 2026
aimflicks-beta.vercel.app | React, Three.js, Cloudflare Workers, Durable Objects, D1, R2

- Joined a collaborator's browser aim trainer and grew it into AimFlicks: rebranded it, split the monolith into feature modules and extracted the Three.js engine.
- Built real-time parties, invites, presence and chat on Cloudflare Durable Objects (a room per party, sharded presence) with the WebSocket Hibernation API, so idle lobbies cost nothing.
- Added first-person run replays from stored movement logs and career pages with per-drill mastery, and limited each account to one live session so rankings stay fair.

Himotoki | Product Engineer, Mobile & Learning 2026
himotoki.web.app | TypeScript, Expo, React Native, Hono, SQLite, Firebase

- Built the Expo/React Native app for a Japanese–English dictionary on web and mobile: onboarding, account sign-in with Firestore sync, and on-device translation.
- Co-maintain the TypeScript monorepo with its lead developer: authored 25 merged pull requests, reviewed and merged 55 more, and added per-client API rate limits and CDN caching.

HirePassport | Technical Product & UI Lead Jun 2026
SDGs to Startups Hackathon, Tokyo | React, TypeScript, Supabase, Gemini API, FastAPI, ElevenLabs

- Built a voice AI interviewer (Gemini 2.5 Flash with ElevenLabs speech) plus multiple-choice and coding assessments as a FastAPI service.
- Used Gemini in Supabase Edge Functions to parse uploaded CVs into strict JSON for review before import, and to score candidate–job suitability.

nightbot-to-discord | Solo Developer 2026

- Built a multi-user Cloudflare Worker that bridges a GET-only chat bot to Discord webhooks, with per-user keys stored as SHA-256 hashes in D1; cut YouTube live-stream lookups from 100 API quota units to 2.

EDUCATION

Tokyo International University | B.Sc. in Digital Business and Innovation Aug 2026

- Relevant coursework: Foundations of Python (A), Python for Data Science & AI (A−), Data Science & AI Project (A−), Cybersecurity and Applications (A)

OTHER EXPERIENCE

Heatsystem, Tokyo | Heavy-Duty Operations Specialist (Part-Time) 2023 – 2026

- Completed 320+ on-site technical cleaning and maintenance jobs (9–11 client sites a month) alongside a full-time degree, with zero safety violations and 100% attendance; trained new hires on SOPs and safety.