NICKO JAMES BARATA

nickobarata.vercel.app • nickobarata07@gmail.com • linkedin.com/in/nicko-james-barata • github.com/noteve07

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, SQL, C, C++, Java, C#, PHP
Frameworks/Libraries: React, Next.js, Vue.js, TailwindCSS, Express.js, NestJS, FastAPI, .NET, Laravel
Databases: MySQL, PostgreSQL, SQLite, MongoDB, Firebase, Supabase
Data, ML & AI: Scikit-Learn, TensorFlow, PyTorch, RAG, LLMOps, LangChain, HuggingFace, Ollama, n8n
Tools: Git, VS Code, Docker, Podman, MCP, VPS, WSL, Jupyter, Postman

WORK EXPERIENCE

AI Specialist Associate
Jul 2026 - Present

SN International Group Pty Ltd • *Sydney, Australia (Remote)*

- Collaborate directly with the CEO to identify business requirements and translate them into AI solutions using n8n, API, MCP and multi-agent systems, saving up to 40+ hours of manual work per week.
- Optimize AI workflows and production integrations to improve reliability and performance, maintaining ~95% workflow uptime across deployed automations while reducing operational costs by up to ~60%.

Software Developer Intern
May 2026 - Aug 2026

Department of Science and Technology • *Taguig, Philippines (Remote)*

- Developed CRUD operations with authorization microservices for DOST Project Management System using React, Express.js, and PostgreSQL, achieving a 100% code approval rate for SIT integration.
- Integrated Project Charter functionality with the Enterprise Information System and 5 other microservices, optimizing interoperability across system components.
- Managed version control and coordinated code changes with fellow interns across 40+ commits, preventing merge conflicts and maintaining a consistent codebase.

Product Engineer - Senior Mission Specialist
Jan 2026 - Present

KadaKareer • *Manila, Philippines (Remote)*

- Lead a team of 3 product engineers in delivering product features in collaboration with product managers and stakeholders, achieving 90% in sprint execution.
- Develop full-stack features across core product workflows with React, TypeScript, NestJS, and Firebase, maintaining ≥95% release quality with zero critical production bugs.
- Engineered an automated contract signing system that replaced manual email-based workflows, eliminating repetitive follow-ups and reducing administrative processing by ~70%.

PROJECTS

Automated Live Information for Seismic Tracking and Observation (ALISTO)
React, PWA, Python, FastAPI, TailwindCSS, Leaflet.js, PostgreSQL, PostGIS, Machine Learning, Computer Vision

- Engineered a real-time earthquake monitoring system with interactive dashboards, GPS-based SMS alerts, rule-based structural profiling with 3D mapping, YOLOv11-based damage detection and context-aware AI chatbot.
- Applied K-Means Clustering and Random Forest to 120K+ historical and live seismic records collected from DOST-PHIVOLCS to generate seismic risk-level classifications across all 82 provinces in the Philippines.

Lighting Intelligence with Automated Navigation for Analytics and Governance (LIWANAG)
React, FastAPI, Supabase, TypeScript, TailwindCSS, Leaflet.js, QGIS, Ollama, IoT, ESP32

- Led a 4-person hackathon team to develop a full-stack IoT system using ESP32, FastAPI, Supabase Realtime, and React for real-time street illumination monitoring with live sensor data, GPS tracking, and interactive dashboards.
- Architected the integration of IoT devices, backend services, and web interfaces, enabling real-time data streaming, geospatial mapping, and AI-powered analytics to identify underlit urban areas.

EDUCATION

Bachelor of Science in Computer Science
2023 - 2027

Bataan Peninsula State University - Main Campus

- DOST-SEI Scholar | Data Engineering Pilipinas Scholar
- **Programming Competitions:** 4th Place Finalist National (2025) | 2x Regional 1st Runner-Up (2025 & 2026)
- **Hackathons**: Top 10 - AI in UX Fintech Hackathon 2025 | Finalist - GeoHack 2026 DOST-GATES Spatial Solutions

CERTIFICATIONS

Google AI Professional Certificate • AWS AI Practitioner Challenge • Associate AI Engineer for Developers • Geospatial Analysis • AI Fundamentals with IBM SkillsBuild • Microsoft Office 365 Associate • IT Specialist - Software Development