

ERNEST MIKHAIL SACDAL

Software Engineer | Full-Stack Developer | AI/ML Engineer

Bankstown, NSW 2200 | sacdalernest01@gmail.com | +61 468 933 638
ernestmikhail.com | linkedin.com/in/ernestmikhail | github.com/ernestsacdal

PROFESSIONAL SUMMARY

Software Engineer and AI/ML Engineer with 4+ years of professional experience delivering production-ready full-stack and backend applications. Specialises in FastAPI, Next.js, Python, and LLM-powered systems. Proven experience across RESTful API design, microservices architecture, CI/CD pipelines, and cloud deployment. Available for full-time, contract, and hybrid roles.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, PHP

Frameworks & Libraries: FastAPI, Next.js, React, Express.js, Django, Laravel, Node.js

Tools & Platforms: Git, Docker, AWS (EC2, S3, Lambda), REST API Design, CI/CD Pipelines, Linux

AI & LLM Integration: Claude API, OpenAI API, Gemini API, LangChain, AI Agents, Prompt Engineering, RAG

Databases: PostgreSQL, MySQL, MongoDB

Testing: Pytest, Jest, Unit Testing, API Testing

Practices: Agile/Scrum, Microservices, System Design, Code Review, Technical Documentation

EXPERIENCE

Software Engineer – Full-Stack & AI

2025 – Present

Self-employed – Independent Consulting, Sydney NSW

- Developing AI-powered full-stack applications for businesses and academic teams using Next.js, FastAPI, and Python.
- Built PreTriage — a patient pre-triage AI system using Groq LLM, FastAPI, and Next.js — deployed on Vercel and Railway with session-based result pages and a public showcase dashboard.
- Delivering custom API integrations and workflow automation using Claude API, OpenAI API, and LangChain.
- Managing full project lifecycle independently: scoping, development, deployment, and client handover.

Software Engineer

Jan 2024 – Feb 2025

Lightweight Global Tech Solutions

- Led full-stack development of multi-tenant utility billing systems and ERP platforms using Express.js, Next.js, and TypeScript, improving scalability and data accuracy across the platform.
- Led frontend development of a beneficiary management system in Next.js, improving UI responsiveness and reducing reported UX issues.
- Built a prototype AI-powered proposal generation agent integrating LLMs, significantly reducing manual proposal drafting time for the team.
- Developed a RESTful API using Django for a BPO locker system with automated device and attendance tracking, supporting over 200 daily active users.
- Optimised a customised insurance system, improving database query performance and reducing data inconsistency errors across reporting pipelines.
- Delivered all projects under Agile/Scrum methodology with automated CI/CD pipelines and sprint-based security reviews.

Full-Stack Developer

2022 – 2024

Freelance

- Managed end-to-end project workflows: requirements gathering, API development, testing, deployment, and client handover.
- Built and delivered custom solutions for clients using Django, Laravel, Express.js, and Next.js across multiple industries.
- Managed multiple concurrent client projects, consistently meeting deadlines and maintaining strong client relationships.

EDUCATION

Master of Information Technology

Mar 2025 – Present

Crown Institute of Higher Education, Sydney NSW

- Relevant coursework: Software Architecture, Machine Learning, Cloud Computing, AI Systems.
- Individual research focus: AI-based Risk Scoring and Rules Engine, developed in collaboration with industry partner.

Bachelor of Science in Information Technology

2020 – 2024

PHINMA Araullo University

- Strong foundation in software engineering, web development, databases, and systems design.