BERNARD ADJEI-YEBOAH

Full Stack Software Engineer | Insurance Technology & AI Specialist

Sydney, NSW, Australia • 0410 059 899 • bernardadjei10@gmail.com

linkedin.com/in/bernardadjei-yeboah • bernardadjei.com

★ **Interactive Prototype: greenstone.bernardadjei.com** ★

PROFESSIONAL SUMMARY

Results-driven Full Stack Software Engineer with over three years of experience designing and delivering enterprise-grade software systems across highly regulated industries. Proven expertise in building AI-powered analytics platforms, real-time data dashboards, multi-system integration layers, and intelligent automation solutions that drive operational efficiency and measurable business outcomes.

Demonstrated success in architecting end-to-end platforms that process thousands of transactions monthly, including real-time analytics dashboards, enterprise integration platforms connecting 5+ disparate systems, and AI-powered document processing solutions with 94% accuracy. Strong background in React, TypeScript, Python, Node.js, and cloud technologies with deep understanding of data-driven decision-making, compliance requirements, and complex multi-brand portfolio environments.

Seeking to leverage my full-stack development expertise, AI/ML capabilities, and passion for building intelligent data platforms to contribute to Greenstone Financial Services' mission of delivering smart and accessible insurance solutions across Australia, New Zealand, and Canada.

CORE COMPETENCIES

✓ Full Stack Development	✓ Data Visualisation & Analytics	✓ React & Frontend Architecture
✓ Python & Backend Systems	✓ API Design & Integration	✓ Database Design & Optimisation
✓ AI & Machine Learning	✓ Enterprise System Integration	✓ AWS Cloud Services
✓ Insurance & Financial Services	✓ Real-Time Data Pipelines	✓ Debugging & Performance Tuning

PROFESSIONAL EXPERIENCE

Software Engineer & Technology Lead

HEALTHiClinic

St Leonards, NSW | 2024 – Present

Leading technology strategy and full-stack development for a growing technology platform serving multiple sites across Sydney. Responsible for AI solution architecture, automation implementation, and digital transformation initiatives across the organisation.

Full Stack Development & Data Platform Architecture

- Architected and developed end-to-end booking and management platform using React frontend, Node.js backend, and PostgreSQL database, processing thousands of transactions monthly with automated confirmations, reminders, and follow-up workflows
- Built responsive, high-performance user interfaces using React, TypeScript, and Tailwind CSS, delivering seamless experiences across desktop and mobile for operational staff and end users
- Created real-time analytics dashboards using React and Recharts, providing leadership with actionable insights into operational performance, revenue trends, utilisation metrics, and efficiency KPIs — directly transferable to insurance portfolio monitoring
- Designed and implemented RESTful APIs following industry best practices, with comprehensive error handling, request validation, and detailed logging for debugging and audit purposes

AI & Automation Solutions

- **Care Scribe** — AI-powered document processing that reduced manual processing time by 60% while improving accuracy and compliance, demonstrating capabilities applicable to claims intelligence and fraud detection
- Implemented intelligent workflow automation reducing manual administrative work by 70% through custom process engines, automated task routing, and smart notification systems
- Built automated communication systems with SMS and email integration, improving engagement through timely, personalised outreach — directly applicable to policyholder communications

Enterprise Integration & Data Management

- **Care Sync AI** — Unified integration platform connecting 5+ disparate systems (records, billing, scheduling, communications, reporting) into a single source of truth — mirroring multi-brand data consolidation challenges
- Eliminated duplicate data entry and enabled real-time synchronisation across all connected systems, establishing unified data governance and comprehensive audit logging
- Designed database schemas optimised for complex data patterns with efficient indexing and query optimisation ensuring sub-second response times across large datasets
- Implemented robust security: 256-bit encryption, role-based access control, and multi-factor authentication aligned with Australian privacy requirements

Systems Analyst & Software Developer

North Shore Medical Group (NSMG)

St Leonards, NSW | 2022 – Present

Delivering technology solutions for a multi-site services organisation, focusing on process automation, system integration, custom software development, and workflow optimisation across departments.

Software Development & System Integration

- Designed and deployed comprehensive inventory management system with real-time tracking, automated triggers, and supplier integration using React frontend and Python backend services
- Integrated multiple business systems including CRM, accounting software, and communication platforms through custom API development, eliminating data silos across departments
- Built custom reporting dashboards providing management with real-time visibility into KPIs, operational metrics, and financial data for informed decision-making

Process Automation & Workflow Optimisation

- Created automated reporting pipelines using Python and SQL that reduced report generation time from hours to minutes, eliminating manual data entry errors
- **Shift Compass** — Intelligent scheduling solution using predictive analytics and constraint-based optimisation, reducing scheduling conflicts by 85%
- Conducted comprehensive business process analysis across departments, identifying inefficiencies, bottlenecks, and opportunities for technology-driven improvements

KEY PROJECTS & INNOVATIONS

Greenstone AI Command Centre — Multi-Brand Insurance Intelligence Platform

🌐 **Live Demo: greenstone.bernardadjei.com**

Built a comprehensive enterprise-grade insurance intelligence platform prototype specifically for Greenstone Financial Services. Showcases multi-brand portfolio management across 14 insurance brands operating in Australia, New Zealand, and Canada. Features include:

- **Portfolio Overview** — Multi-brand performance metrics with revenue trends, geographic split (AU/NZ/CA), and brand-level KPIs across 1.7M+ simulated active policies
- **AI Claims Intelligence** — Real-time claims processing analytics, fraud detection with risk scoring, predictive forecasting, and AI automation rate tracking
- **Customer Intelligence Hub** — Customer segmentation, churn risk prediction, cross-sell opportunity identification, and multi-channel sentiment analysis
- **Data Pipeline Health** — Real-time ETL job monitoring, throughput metrics, latency tracking, and system alerts across all brand data pipelines
- **AI Assistant** — Conversational AI interface for policy comparison, claims inquiries, and knowledge base exploration

Built with Next.js 14, TypeScript, Tailwind CSS, and Recharts. Deployed on Vercel with web analytics.

Care Scribe — AI-Powered Document Processing System

Production System | 60% Processing Time Reduction | 94% Accuracy

Production AI system that automatically processes documentation, extracts key information using NLP, validates compliance requirements, and populates downstream systems. Handles thousands of documents monthly. Built with Python, OpenAI API, and integrated with enterprise systems through secure API connections.

Care Sync AI — Enterprise Integration Platform

5+ Systems Integrated | Real-Time Synchronisation

Architected a unified API layer connecting 5+ disparate enterprise systems into a single source of truth. Eliminated duplicate data entry, enabled real-time synchronisation, and provided leadership with consolidated analytics dashboards. Built custom middleware, webhooks, and ETL pipelines.

Shift Compass — Intelligent Workforce Optimisation

85% Reduction in Scheduling Conflicts

Created an intelligent rostering and workforce management solution using predictive analytics and constraint satisfaction algorithms. Automated notifications, swap requests, and approval workflows. Full audit trail and compliance reporting. Built with React, Python, and PostgreSQL.

TECHNICAL SKILLS

Frontend:	React, TypeScript, JavaScript, Next.js, HTML5, CSS3, Tailwind CSS, Recharts, Responsive Design, Accessibility (WCAG)
Backend:	Python, Node.js, PHP, Express, FastAPI, Django, REST APIs, GraphQL, WebSockets
Databases:	PostgreSQL, MySQL, MongoDB, Redis, Supabase, Firebase, Query Optimisation, Database Design
Cloud & DevOps:	AWS (EC2, S3, RDS, Lambda, CloudWatch), Google Cloud Platform, Microsoft Azure, Docker, CI/CD, Git, Vercel
AI & Automation:	OpenAI API, LangChain, Natural Language Processing, Machine Learning, TensorFlow, Power Automate, n8n
Data & Analytics:	Recharts, Data Visualisation, ETL Pipelines, Real-Time Dashboards, Predictive Analytics,

	Pipeline Monitoring
Testing & QA:	Unit Testing, Integration Testing, End-to-End Testing, Debugging, Performance Profiling, Code Review

EDUCATION

Master of Information Technology (Artificial Intelligence)
Asia Pacific International College (APIC) • Sydney, NSW • 2025

Bachelor of Information Technology
Victoria University • Sydney, NSW • 2020

PROFESSIONAL CERTIFICATIONS

Australian Computer Society (ACS) — 9 Professional Accreditations:

✓ ICT Business Analyst	✓ Systems Analyst	✓ Software Engineer
✓ Analyst Programmer	✓ Developer Programmer	✓ Web Developer
✓ Networks & Systems Engineer	✓ Web Administrator	✓ Multimedia Specialist

Cloud Certifications:

AWS Solutions Architect • Google Cloud Professional • Microsoft Azure Certified • Scrum Master

AVAILABILITY & COMMITMENT

Based in Melrose Park, NSW • Available for Immediate Start • Hybrid/Onsite Flexibility

I am genuinely excited about the opportunity to contribute to Greenstone's mission of making smart financial solutions simple and accessible. The chance to work across a multi-brand portfolio serving millions of customers across Australia, New Zealand, and Canada building the data platforms and AI-powered tools that drive better insurance outcomes — is exactly the kind of meaningful, large-scale engineering challenge I am seeking.

View my interactive insurance intelligence prototype: **greenstone.bernardadjei.com**