Bonny Makaniankhondo
Full Stack Software Developer

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Full Stack Software Developer with 10+ years of technical exploration and professional experience building scalable, data-driven applications. Specializes in React, Node.js, SQL, and AI-powered integrations to turn complex problems into intuitive systems. Expertise includes full-stack feature development, LLM-driven insights, data modeling, performance optimization, and building executive-facing dashboards.

Employment history

Full Stack Software Developer Intern, i.c.stars, Aug 2025 - Present

Chicago

I design and build full-stack applications, integrate AI systems, and contribute across the entire development lifecycle—from discovery to architecture, implementation, testing, and deployment. My work centers on solving real business problems through scalable engineering, thoughtful design, and data-driven decision-making.

- Built and maintained full-stack features using **React, Node.js, Express, and SQL**, improving overall platform reliability, usability, and workflow efficiency across internal applications.

- Developed **AI-powered insight engines** using the Anthropic Claude API, which streamlined analyst workflows by automatically generating summaries, insights, and trend detection.

- Architected **data pipelines and transformation utilities** that supported sentiment analysis, loyalty classification, trend identification, and KPI reporting for **a major U.S. airline partner**.

- Designed and implemented **role-based access control**, administrative tools, and permission structures that strengthened data security and improved internal operations.

- Created **interactive dashboards and visualizations** using Power BI, Recharts, and custom UI components, resulting in clearer insights and more effective decision-making for analysts and leadership.

- Migrated a production application from **Firebase/Firestore to Supabase/PostgreSQL**, improving data structure consistency, query efficiency, and overall system stability.

- Built responsive, mobile-first user interfaces using **Tailwind CSS**, enhancing accessibility and ensuring a consistent experience across all device types.

- Improved platform scalability by optimizing API workflows, reorganizing component architecture, and minimizing unnecessary re-renders to support smoother performance.

- Collaborated in Agile ceremonies, contributing to clearer requirements, more effective sprint planning, and consistent delivery of high-impact features.

Heat & Frost Insulator, Union Local 75, Jan 2018 - Jan 2023

Electrical Technician, Alexander Dennis Inc., Jan 2017 - Jan 2019

Crew Lead, New Creation Landscaping, Jan 2008 - Jan 2012

Addressed By Bonny

Solving real problems through full-stack engineering and AI systems.

I build software that addresses real challenges—through clean architecture, scalable systems, and user-centered design. Each project below represents a problem that needed a solution and the engineering required to deliver it.

Analytics Dashboard

Customer Insight Platform for a Major U.S. Airline Partner

Full Stack • AI Insights • Data Architecture • Executive Analytics

A multi-hub analytics platform used to visualize customer sentiment, loyalty behavior, operational performance, and real-time feedback at scale.

Contributions:

- Engineered **AI-driven insight generation** using the Claude API, producing leadership-ready summaries and trend analysis.
- Built dashboards with **hub filtering, route spotlighting, loyalty-tier segmentation**, and customer experience mapping.
- Developed **data transformation utilities** supporting segmentation, issue categorization, and KPI tracking.
- Implemented secure **role-based access control**, user management workflows, and administrative tools.
- Created interactive charts, insight cards, and filtering capabilities used by analysts and executives.
- Improved performance by optimizing data flow, restructuring components, and streamlining API usage.

ChefBonBon

AI-Powered Recipe Generator

Full Stack Development • Database Engineering • LLM Integration

A full-stack web application that uses AI to generate personalized recipes based on user ingredients.

Contributions:

- Built the entire interface using **React + Tailwind**, including ingredient management and recipe displays.
- Integrated the **Claude LLM** for recipe generation with secure backend proxying and optimized prompts.
- Executed a full migration from **Firebase/Firestore → Supabase/PostgreSQL**, designing relational schemas from scratch.
- Implemented **Row Level Security**, authenticated sessions, and real-time subscriptions.
- Built social features such as public recipe feeds, likes, and optimistic UI updates.
- Improved performance through indexing, schema normalization, and optimized query patterns.

SyncUp

Intern & Alumni Collaboration Platform (In Development)

Full Stack Development • Frontend Architecture • UX • Analytics

A collaboration and mentorship platform currently in development, built by a two-person engineering team. I serve as the primary developer responsible for front-end architecture, core feature implementation, and aligning the product with user and program needs.

Contributions:

Addressed By Bonny

- Serving as the **lead developer** on the project, responsible for designing the front-end architecture, component structure, and development workflow for long-term scalability.
- Implementing core platform features in **React**, establishing reusable UI patterns, state management logic, and responsive layouts.
- Integrating **Power BI dashboards** to deliver real-time insights into engagement, progress tracking, and program activity.
- Designing user flows and intuitive interfaces to ensure the platform is simple, accessible, and effective for interns and alumni.
- Improving code quality through clean architecture, modular components, and iterative testing as the product evolves.
- Working closely with a business analyst and design partner to refine requirements, validate assumptions, and translate program needs into functional software.

Education

i.c.stars, Chicago, Aug 2025 - Present
Technology, Business & Leadership Development Program

Ivy Tech Community College, South Bend/Elkhart, Sep 2021 - Sep 2023
A.A.S. in Construction Management

Courses

Front End Development Libraries
freeCodeCamp

JavaScript Algorithms and Data Structures
freeCodeCamp

Responsive Web Design
freeCodeCamp

Technical Skills

JavaScript	React	Node.js	Express
Anthropic Claude API	LLM Integration	Supabase	PostgreSQL
Firebase	Firestore	SQL	REST APIs
Authentication	Authorization	Data Pipelines	Tailwind CSS
Recharts	React Router	Azure Cognitive Services	Power BI
GitHub	Vite	ESLint	Postman
JIRA	Agile Development	Debugging	UI/UX Optimization
Scalable Architecture	Real-Time Features	Documentation	HTML

Soft Skills

Problem Solving: Diagnose complex technical and business challenges across the full stack and design effective, scalable solutions.

Technical Leadership: Take ownership of features, influence architectural decisions, and guide development efforts in small-team environments.

Business & Product Thinking: Translate business needs into technical plans, prioritize high-impact work, and understand stakeholder requirements.

Cross-Functional Collaboration: Partner effectively with analysts, designers, business leaders, and executives to align goals and deliver meaningful solutions.

Soft Skills

Strategic Systems Thinking: Design scalable, maintainable systems with long-term growth, reliability, and clarity in mind.

Communication: Convey technical concepts clearly, present insights confidently, and write documentation that accelerates development.

User-Centered Design: Build intuitive interfaces and workflows that emphasize clarity, accessibility, and real-world usability.

Adaptability: Quickly learn new technologies, adjust to evolving requirements, and stay productive in fast-paced Agile environments.

Ownership & Accountability: Manage time well, meet deadlines, and take responsibility for features from initial planning through deployment.

Resilience & Persistence: Work through challenges with patience and consistency, iterating quickly to deliver reliable outcomes.

Broad Technical Skill Set: Comfortable working across frontend, backend, databases, AI integrations, and cloud-based tools.

Links

LinkedIn   Portfolio   GitHub