

RUBEN CALEB

Full-Stack Software Developer

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Portfolio: devfolio-rv-caleb-v3.vercel.app | GitHub: github.com/klabruben3 | LinkedIn: linkedin.com/in/ruben-caleb-b5243326b

PROFILE

Full-stack developer who builds complete systems across the frontend, backend, database, authentication, and AI integration layers. Over the past two years, I've independently taken multiple applications from architecture through production deployment, including an AI-powered academic workspace for NWU students, a real-time messaging and portfolio platform, and a freelance client project. Early career, but already comfortable owning architectural, database, security, and implementation decisions across a project.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), SQL, HTML5, CSS3
Frontend: React, Next.js (App Router), Tailwind CSS, Responsive & Component-Based UI
Backend & Data: Supabase, PostgreSQL, Authentication & Authorization, Row Level Security, REST APIs, Server Actions, Realtime Systems, Relational Database Design
AI & Document Processing: AI SDKs (Gemini, OpenAI, Groq), Structured Outputs, OCR & Document Parsing, Embeddings & Retrieval
Tools & Deployment: Git, GitHub, Vercel, VS Code, Figma

EXPERIENCE

Freelance Software Developer — Buhle Bezwe Early Childhood Development Centre

2024 – Present | Next.js • React • TypeScript • Tailwind CSS • Framer Motion

- Took the project from client requirements through design, development, and production deployment, delivering the centre's first website.
- Built the interface around the organization's branding using reusable React components, responsive layouts, and interactive UI animations.
- Worked directly with the client to translate their requirements into features, iterating on design and UX based on their feedback.
- Structured the codebase to support future expansion into parent- and admin-facing functionality.

Live: buhle-bezwe.vercel.app

SELECTED PROJECTS

Academiq — AI-Powered Academic Workspace

Next.js • React • TypeScript • Supabase • PostgreSQL • Tailwind CSS • AI SDKs (Gemini, OpenAI, Groq)

- Designed and built a full-stack academic workspace centralizing modules, assessments, marks, timelines, and study tools for NWU students, from data model to deployed UI.
- Designed PostgreSQL data models and Supabase Row Level Security policies to isolate each student's data and enforce access control at the database layer.
- Built document-processing workflows combining text extraction, OCR, and structured parsing to turn uploaded academic documents into application-ready data, including automatic assessment-weight detection.
- Integrated multiple AI providers (Gemini, OpenAI, Groq) behind a common interface, using structured outputs so AI responses could be consumed reliably by the application instead of parsed as free text.
- Built an AI assistant with access to a student's academic context (modules, assessments, timelines) to support study planning and Q&A, applying retrieval/embedding concepts to ground responses in the student's own data.
- Built responsive dashboard, module, calendar, and assessment interfaces with reusable React components, and made performance-conscious decisions about when to fetch from Supabase versus rely on local state.
- Deployed and iteratively maintained the application on Vercel with GitHub-based deployments.

Live: academiq-nwu.vercel.app

Devfolio — Full-Stack Portfolio & Real-Time Visitor Platform

React • Next.js • TypeScript • Supabase • PostgreSQL • Tailwind CSS

- Designed and built a portfolio platform with real-time visitor-to-admin messaging, presence tracking, and an admin dashboard — a small full-stack system rather than a static site.
- Implemented email/password and anonymous authentication flows, with Row Level Security policies enforcing data access per session.
- Designed a relational PostgreSQL schema with real-time subscriptions to synchronize messages, conversation state, and visitor presence across clients.
- Wrote a Supabase Edge Function to validate administrative access codes server-side, keeping privileged verification logic out of the client.
- Built and deployed a responsive frontend, with GitHub-based automated deployments to Vercel.

Live: devfolio-rv-caleb-v3.vercel.app | GitHub: github.com/klabruben3/devfolio.rv_caleb-v3

CORE ENGINEERING AREAS

Full-Stack Web Development • React & Next.js • REST APIs & Server Actions • Authentication & Authorization • PostgreSQL & Relational Database Design • Row Level Security • Real-Time Application Architecture • AI Integration & Structured Outputs • Document Processing & OCR • Debugging & Production Deployment

EDUCATION

North-West University — B.Sc. Computer Science & Mathematics

Expected Graduation: 2029

Relevant coursework: Programming, Mathematics, Analytical Problem Solving, Physics