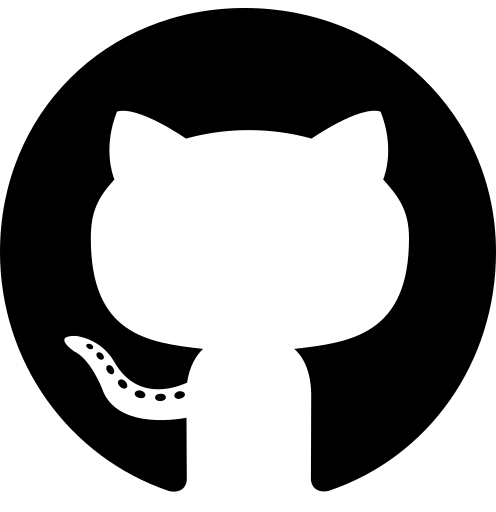
**Louis Adriano**

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Summary

Full-stack Developer with 1+ years of experience building scalable web applications using Next.js, TypeScript, and React. Delivered AI-powered platforms with 90%+ search accuracy and corporate websites achieving 90+ PageSpeed Insights score. Experienced in vector databases, semantic search, API integration, and cloud deployment. Seeking to leverage proven technical skills and innovative problem-solving abilities to drive user engagement and deliver high-impact web solutions.

Skills

**Languages:** TypeScript, JavaScript, Python, SQL, Java, PHP, HTML, CSS

**Frameworks:** Next.js, React (Hook Form, Zod), Tailwind CSS, Bootstrap, Node.js

**Tools & Platforms:** Vercel, Git/GitHub, AWS, Jira, Slack, PhpMyAdmin, Linux Bash

**Concepts:** SEO optimization, SSR, responsive design, authentication, cloud apps, big data, AI integration, vector similarity search

**Methodologies:** Agile, Scrum, IT project management, cross-team collaboration, problem solving

Experience

**TLA IT** Sydney, New South Wales, Australia · Hybrid

*Full-stack Developer* *May 2025 - Present*

* Developed responsive corporate website using Next.js 14, TypeScript, and Tailwind CSS with server-side rendering, component-based architecture, and cross-browser compatibility.
* Built 8+ custom React components with intersection observer animations, scroll-based navigation, mobile-responsive UI using shadcn/ui design system, and optimized image handling across 7 main sections.
* Implemented comprehensive SEO optimization achieving 90+ PageSpeed Insights score, including meta tags, Open Graph protocols, structured data markup, and performance optimization for improved search engine visibility.
* Integrated RESTful API endpoints with secure authentication and error handling, streamlining data flow between front-end and back-end services to enhance reliability and user engagement.

**AusBiz Consulting** Sydney, New South Wales, Australia · Hybrid

*AI Data Analyst Intern* *August 2025 - Present*

* Architected and developed "About To Eat," an AI-powered food discovery platform using Next.js 14, TypeScript, and Upstash Vector database with semantic search capabilities and cultural insights generation.
* Implemented advanced vector embeddings and semantic search algorithms achieving 90%+ relevance accuracy, utilizing 1024-dimensional custom food embeddings with hybrid scoring (30% vector + 70% text similarity).
* Integrated Groq SDK with Llama 3.1 models for real-time AI query enhancement, cultural context generation, and conversational memory, enabling natural language food discovery and personalized recommendations.
* Built comprehensive admin dashboard with PostgreSQL integration, Clerk authentication, and real-time vector database synchronization, managing 75+ global dishes across 15+ cuisine types.
* Deployed scalable architecture on Vercel with streaming APIs, achieving sub-second response times and handling concurrent AI-powered search requests with proper error handling and fallback mechanisms.

*Full-stack Developer Intern* *November 2024 - February 2025*

* Architected and developed a fullstack web application using Next.js 15, Node.js, and TypeScript, demonstrating proficiency in modern JavaScript frameworks and typesafe programming.
* Engineered secure authentication and third-party integrations, including Google OAuth and Google Maps API, reducing login time by 40% and improving location-based service accuracy by 25%.
* Leveraged React ecosystem technologies such as React Hook Form and Zod for robust form handling and data validation, improving overall data integrity and user experience.
* Deployed and managed the application on Vercel, gaining hands-on experience with cloud platforms and continuous deployment practices in a production environment.

Project

**Ausbiz Consulting** | *AI-Powered Food Discovery Platform with RAG*

github.com/louis-adriano/about-to-eat-rag-mcp August 2025 - September 2025

* Developed an intelligent food discovery platform using Next.js 14, TypeScript, and Upstash Vector database with advanced semantic RAG search capabilities, enabling users to find dishes through natural language descriptions.
* Implemented sophisticated AI integration with Groq SDK and Llama 3.1 models for real-time query enhancement, cultural context generation, and conversational memory, achieving 90%+ search relevance accuracy.
* Engineered custom 1024-dimensional vector embeddings with hybrid scoring algorithm (30% vector + 70% text similarity) and cultural semantic mapping, supporting 75+ global dishes across 15+ cuisine types.
* Built comprehensive admin dashboard with PostgreSQL integration, Clerk authentication, real-time vector synchronization, and streaming AI responses, enabling efficient content management and system monitoring.
* Deployed scalable architecture on Vercel with edge computing, achieving sub-second response times and seamless user experience across devices with proper error handling and fallback mechanisms.

**Ausbiz Consulting** | *Healthcare Referral Management System*

[github.com/louis-adriano/healthcare-referral-management-system](https://github.com/louis-adriano/healthcare-referral-management-system) November 2024 - February 2025

* Developed a secure, web-based Healthcare Referral Management System using Next.js 15, TypeScript, and Tailwind CSS to streamline patient referral creation, tracking, and management, reducing manual processing time by 40%.
* Implemented multi-step referral forms with real-time validation (React Hook Form, Zod) and Google Maps API autocomplete to improve data accuracy and submission speed.
* Built a management dashboard with filtering, search, pagination, and detailed referral views supporting status updates, notes, and JSON output.
* Integrated NextAuth.js with Google OAuth for secure authentication and added a real-time notification system for referral updates.
* Delivered a responsive, mobile-friendly UI with efficient navigation, achieving a seamless user experience across devices

Education

**Bachelor of Information Technology, Web and Mobile Application Development** Sydney NSW

Victoria University • Minor in ICT Management *October 2026*

* Awarded the "Block Star" Award or highest grade point average for the Software Engineering subject unit.

**Diploma of Information Technology** Sydney NSW

Victoria University • 3.75 GPA *September 2024*

* Proficient in Python programming, web development (HTML, CSS, WordPress, Bootstrap), and database management using SQL and PhpMyAdmin.
* Experienced with Linux Bash Shell, Unix scripting, OS architectures, and web application/server management with PHP and frameworks.
* Skilled in IT project management, including requirements planning, risk management, and scope control.

References

**Nathan Houison**

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**Ausbiz Consulting**

Reference letter available upon request