

Marthaya Putra

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Summary

Senior Product Engineer with **10+ years** of experience specializing in end-to-end ownership of user-facing web applications and APIs. Expert in modern full-stack development (React, Node.js, Next.js) and building scalable, performant architectures. Proven ability to translate complex user problems into intuitive solutions, drive rapid iteration, and integrate AI/automation to enhance capabilities, consistently collaborating with cross-functional teams to deliver high-quality, impactful products.

Experience

Senior Software Engineer – *We Lysn*

New South Wales, Australia (Remote), Feb 2024 – Present

- Led end-to-end development of a telehealth platform MVP using Next.js and React, delivering core features within **2 sprints** and demonstrating full-stack ownership.
- Collaborated actively within a product trio (product, design, engineering) to drive features from initial discovery through deployment, ensuring user-centric solutions and rapid iteration.
- Initiated and contributed to an AI-driven product, leveraging technologies like Supabase, PostgreSQL, and tRPC to enhance platform capabilities and implement intelligent workflows.

Web Software Engineer – *Glints*

Bali, Indonesia (Remote), Apr 2022 – Feb 2024

- Optimized user-facing job and employer marketplace applications built with React and Next.js, significantly improving Web Vitals scores, site performance, and SEO rankings.
- Enhanced and maintained an internal React + styled-components design system, improving component reusability and boosting developer productivity.
- Implemented Cypress and Playwright automated testing within CI/CD pipelines, reducing critical post-deployment bugs and elevating product quality.

Senior Engineer – *Nintex*

Kuala Lumpur, Malaysia, Jan 2020 – Mar 2022

- Developed a Node.js and NestJS-based migration tool that successfully transitioned clients from O365 to proprietary cloud systems, demonstrably increasing client conversion rates.
- Unified UI/UX across diverse product suites using React and Angular, creating a seamless and consistent user experience.

Senior Engineer – *Apar Technologies*

Kuala Lumpur, Malaysia, Apr 2019 – Dec 2019

- Engineered an Angular-based parcel management application for DHL, significantly improving agent operational efficiency and customer service outcomes.
- Implemented automated testing processes to enhance software delivery reliability and bolster deployment confidence.

Senior Technical Consultant – *Arvato System*

Kuala Lumpur, Malaysia, June 2017 – Jan 2019

- Led the migration of a legacy Media Asset Management system from AngularJS to Angular, delivering new features and improving system maintainability.
- Developed a centralized, Angular-based media hub for broadcasting clients, streamlining digital asset management workflows.

Skills

- **Web Development & Architecture** : TypeScript, JavaScript, React, Next.js, Node.js, ASP.NET Core, Nest.js, C#, Tailwind CSS, REST, Web Optimization
- **AI & Data Engineering** : RAG (Retrieval-Augmented Generation), Agentic AI, Vercel AI SDK, Azure AI Search, PostgreSQL, Drizzle ORM, Google Generative AI, OpenAI Embeddings API
- **Testing & DevOps** : CI/CD Automation, GitHub Actions, Cypress, Playwright, Jest, Vitest, Vercel, Cloudflare Workers

Education

- Bachelor's Degree - Computer Science, Bina Nusantara University, Jakarta

Projects

Fitted In: AI-Powered Resume & LinkedIn Optimizer

<https://github.com/marthaya-putra/fitted-in>

- Built an AI-driven platform that parses LinkedIn profiles and resumes to generate optimization suggestions.
- Implemented modular architecture with TypeScript, Next.js, and Vercel AI SDK for prompt orchestration and model streaming.
- Deployed on Cloudflare Workers.

Total Recall: Retrieval-Augmented Code & Document Search System

<https://github.com/marthaya-putra/total-recall>

- Developed a full-stack RAG system enabling semantic search across user project repositories.
- Engineered backend with ASP.NET Core 9.0 Web API, Azure AI Search, OpenAI Embeddings API, and vector-based document retrieval.
- Implemented parallel document indexing with concurrency patterns (SemaphoreSlim, batching) for scalability on large datasets.
- Designed frontend as a React + TypeScript app using TanStack Router, React Query, Tailwind CSS, and shadcn/ui for a performant and maintainable UI.

My-Flix: AI-Powered Movie & TV Discovery Platform

<https://github.com/marthaya-putra/my-flix>

- Built a full-stack movie and TV discovery application with personalized, AI-driven recommendations based on user preferences and watch history.
- Designed a modern web stack using TanStack Start, React 19, TypeScript, Tailwind CSS, and shadcn/ui to deliver a performant, responsive search and browsing experience.
- Implemented a scalable backend using Nitro, PostgreSQL, and Drizzle ORM, with secure authentication and session management via Better Auth.
- Integrated external data and AI services (TMDB API, Google Generative AI) to power recommendation logic and dynamic content enrichment.