

Guy Romelle Magayano

Senior Full Stack Engineer

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Senior Full Stack Engineer with 8+ years of experience building enterprise-grade systems for global media, SaaS, and government clients. Expert in **React**, **Django**, **WordPress VIP**, and **AWS**. Proven track record reducing deployment time by **up to 40%**, improving page performance by **over 60%**, and building scalable infrastructure handling **millions of monthly users**. Strong in CI/CD, infrastructure as code, performance optimization, and test-driven development. Delivers results through cross-functional collaboration, automation, and maintainable engineering practices.

Work Experiences

IONA Commerce

November 2024 – February 2025

Full Stack Developer/Consultant (Hybrid, Full-time)

Enhanced Marimekko's Sanity CMS-powered e-commerce platform through test-driven development, component refactoring, and automation, **improving code quality, and automating deployment workflows**.

- **Component Engineering & CMS Integration** (*React.js, TypeScript, Sanity, Jotai, Zod, Storybook*): Refactored React components with Jotai atoms and Zod validation; built a Storybook library, **reducing delivery time by ~30%**.
- **Scrum Collaboration & Delivery** (*Jira, Slack*): Participated in agile rituals and documentation workflows, helping the team consistently ship **sprint goals on time**.
- **CI/CD Automation** (*GitHub Actions, Vercel*): Integrated test pipelines to block unstable code, **lowering post-merge errors by ~40%**.

News Corp Australia (via X-Team)

April 2023 – July 2023

Senior WordPress Engineer (Remote, Contractual)

Engineered optimizations and automation for high-traffic websites with **millions of monthly visitors** including GQ Australia, Vogue Australia, and The Australian. Improved site speed, engagement, and developer workflows.

- **Web Performance & Build Optimization** (*PHP, WordPress, Webpack, PostCSS*): Refactored legacy plugins and blocks; optimized asset delivery and caching, **boosting load speed by ~60%**.
- **Interactive Media Components** (*React.js*): Built swipe-enabled vertical video players; **improved mobile engagement by ~25%**.
- **SEO & Web Vitals** (*Lighthouse, SQL, Google Search Console*): Tuned queries and rendering; **increased Lighthouse SEO scores by 10–15 points**.
- **QA & CI Enhancements** (*Cypress, PHPUnit, WP-CLI*): Built automated tests into CI pipelines; **reduced pre-release bugs by ~80%**.
- **Onboarding Automation** (*BASH, CircleCI, Docker*): Scripted local VIP environments; **cut setup time from hours to 10 minutes**.

Epic Design Labs (via MultiplyMii)

April 2020 – February 2023

Senior Full Stack Engineer (Remote, Full-time)

Architected full-stack solutions across SEO analytics, headless commerce, and social apps, **serving millions of requests/month**.

- **SEO Analytics Platform** (*Python, Django REST Framework, Go, AWS, PostgreSQL, Redis*): Designed scraping system for **10M+ URLs/month** with retries, deduping, and observability; **95%+ success rate, zero downtime deployments**.
- **Wine Social Platform (Web & Mobile)** (*Node.js, MongoDB, React Native, GraphQL*): Built GraphQL API and offline clients with push notifications and maps; **reduced mobile crash rate by ~40%**.
- **Headless Commerce Site** (*Gatsby, BigCommerce, Contentful, Algolia*): Used Incremental Static Regeneration (ISR), caching, and incremental builds to **cut content latency by ~70%**.
- **Marketing Site & Estimation Tool** (*Nuxt, Vue, GSAP*): Built server-rendered calculator and landing site; **improved mobile conversions by ~25%**.
- **Monitoring & Resilience** (*Sentry, LogRocket, CloudWatch*): Unified observability stack with fallbacks; **cut incident resolution time by 50%** across services.

MAKE Interactive & ZUID Creatives

April 2019 – February 2020

Full Stack Engineer (On-site, Full-time)

Optimized WordPress platforms and delivered scalable SaaS modules, ensuring **high availability for enterprise clients**.

- **Performance & CDN Tuning** (*PHP, MySQL, Redis*): Improved load speeds with caching, query tuning, and CDN layers; **reduced page latency by ~40%**.
- **SaaS Feature Development** (*React, Redux*): Built modular, code-split components; **reduced deployment cycle by ~35%**.
- **Salesforce Integration Plugin** (*PHP, WordPress REST API, Salesforce API*): Automated lead sync with Salesforce with a custom WordPress plugin; **doubling form processing throughput**.

Outsourcing Wizards

January 2019 – March 2019

WordPress Developer (Remote, Full-time)

Developed reusable themes and plugins for real estate platforms.

- **Real Estate Plugin** (*Leaflet.js, Gutenberg*): AJAX maps, blocks for properties, improved property search performance; **cut property search time by ~30%**.
- **Theme Boilerplate Development** (*React.js, Node.js, Webpack, Tailwind CSS*): Developed a modular React-based theme with optimized builds, **sped up new site setup by ~40%**.

WordPress Developer

November 2014 – September 2018

Infosoft Studio (On-site, Full-time)

Developed government websites and maintained digital infrastructure, ensuring **long-term stability and regulatory compliance**.

- **Accessible Government Sites** (*WCAG, WordPress*): Built WCAG-compliant, mobile-first platforms; **boosted engagement and SEO visibility**.
- **Training & Automation**: Trained staff and automated routine updates; **reduced tickets by ~35%**.

Projects

Portfolio Site

URL: guyromellemagayano.dev

Repository URL: github.com/guyromellemagayano/portfolio

A monorepo demonstrating modern full-stack patterns through portfolio showcases, an MDX blog, and a live storefront demo.

Tech Stack:

- **Languages & Frameworks:** TypeScript, React.js, Next.js (*SSR*), Astro, Vite
- **Routing & State:** React Router; custom React Hooks + Context API
- **Styling & UI Components:** Tailwind CSS, Headless UI, Heroicons
- **API & Backend:** Node.js, Express.js (*REST + GraphQL*)
- **CMS & Content:** Sanity CMS (*GROQ + MDX integration*)
- **Monorepo Management:** TurboRepo (*workspace + shared packages*)
- **CI/CD & Hosting:** Vercel (*Next.js/Remix/Vite hosting*), GitHub Actions (*lint -> test -> deploy*)
- **Testing:** Vitest (*unit*), React Testing Library (*component*), Playwright (*end-to-end*)

Key Skills

Frontend

- **Core Languages & Frameworks:** TypeScript, JavaScript, React.js, Next.js, Nuxt.js, Gatsby.js, Vue.js, React Native (*mobile*)
- **Build Tools & Bundlers:** Vite, Webpack, Babel, Turborepo, Nx Workspace, *esbuild*, SWC
- **Styling & UI Libraries:** Tailwind CSS, Bulma, Headless UI, Heroicons, GSAP (*GreenSock Animation Platform*), Bootstrap, Styled Components, CSS Modules
- **State & Data Management:** Redux (*Thunk, Toolkit*), TanStack Query, Jotai, Zustand, Formik, React Hook Form, Yup, SWR (*stale-while-revalidate*), Apollo Client
- **Performance & Optimization:** Code splitting, dynamic imports, tree shaking, memoization, virtualization, lazy loading, critical CSS, bundle analysis, Web Vitals
- **Map & Geolocation:** Google Maps React (*@react-google-maps/api*), Mapbox GL, Leaflet.js
- **Drag-and-drop & Interactivity:** *react-beautiful-dnd*, Framer Motion, *react-dnd*, *react-sortablejs*
- **Service Workers & Offline Support:** Workbox, Redux-Offline, IndexedDB, Cache API

Backend & API

- **Languages & Frameworks:** Node.js, Express.js, Python, Django, PHP, WordPress, Go
- **API Development:** REST, GraphQL (*Apollo Server, Nexus, TypeGraphQL*), OpenAPI/Swagger, *trPC*
- **Authentication & Security:** JWT, OAuth 2.0, *bcrypt*, Helmet, Lusca, CSRF protection, rate limiting, CORS, CSP
- **Session & State:** *express-session*, *cookie-parser*, Django sessions, Redis session store
- **Email & Notifications:** Nodemailer, SendGrid, Amazon SES
- **File Uploads & Media Processing:** Multer, Cloudinary, Sharp
- **Data Storage & Caching:** PostgreSQL, Amazon RDS (*with read replicas*), MongoDB (*Mongoose*), Redis, SQLite, MySQL/MariaDB, Amazon S3/CloudFront (*static asset hosting*), Amazon ElastiCache
- **Message Queues & Event Processing:** AWS SQS, RabbitMQ

DevOps & Infrastructure

- **Cloud Platforms:** AWS (*EC2, ECS/Fargate, Lambda, S3, CloudFront, RDS, ElastiCache, SQS, Step Functions, API Gateway, Route 53*), Google Cloud Platform, Vercel, Netlify, Heroku
- **Containerization:** Docker, Docker Compose, Kubernetes (*Helm, Kustomize*), AWS ECS
- **Infrastructure as Code:** Terraform, CloudFormation
- **CI/CD:** GitHub Actions, CircleCI, AWS CodeDeploy, Jenkins, ArgoCD
- **Monitoring & Observability:** CloudWatch, X-Ray, OpenTelemetry, Sentry, LogRocket, Prometheus, Grafana, Datadog, New Relic
- **Performance & Security:** Lighthouse, Web Vitals, AWS WAF, Security Groups, OWASP, SonarQube
- **Networking:** Load Balancers, CDN, DNS, VPC, Subnets, Security Groups

Testing & Quality Assurance

- **Unit Testing:** Jest, Mocha/Chai, PHPUnit, *unittest (Python)*, Vitest
- **Component & Integration Testing:** Testing Library (*React*), Mocha/Chai, *unittest (Python)*
- **End-to-End (E2E) Testing:** Cypress, Playwright, Detox (*mobile*), Selenium
- **API Testing:** Pact (*contract testing*), Postman, Insomnia
- **Linting & Type Checking:** ESLint, Prettier, TypeScript compiler checks, *flake8 (Python)*, *golangci-lint (Go)*, SonarQube
- **Performance Testing & Audits:** Lighthouse, Web Vitals, *k6 (load testing)*

Databases & Data Processing

- **Database Management:** PostgreSQL, MongoDB, MySQL/MariaDB, Redis, SQLite, Amazon DynamoDB
- **Data Modeling & Optimization:** Schema design, indexing strategies, query optimization, data normalization
- **Data Pipelines & Scheduling:** AWS SQS, AWS Lambda, AWS Step Functions, Linux cron jobs (*scheduled Go-based site-crawler tasks; automated URL data extraction -> CSV export*)
- **Web Scraping & Data Extraction:** Python (*requests*), Go HTTP/HTML parsing, rate limiting, proxy management
- **Data Validation & Schema:** Zod, Joi, Yup, Pydantic, JSON Schema
- **Data Analysis & Visualization:** Pandas, NumPy, D3.js

Content Management Systems (CMS) & E-Commerce Integrations

- **Headless CMS:** Sanity, Contentful, Strapi, WordPress REST API, WordPress VIP
- **E-commerce Platforms:** BigCommerce, Shopify, WooCommerce, Commerce Layer, SnipCart
- **Search & Discovery:** Algolia, Elasticsearch
- **Content Delivery:** Netlify, Vercel, CloudFront, Fastly, Cloudflare
- **Static Site Generation:** Next.js, Gatsby.js, Nuxt.js, Astro

Project Management & Collaboration

- **Methodologies:** Scrum, Kanban, TDD, BDD
- **Tools:** Jira, Confluence, Github Projects, Monday.com, ClickUp
- **Documentation:** Markdown, Draw.io, Swagger/OpenAPI, Storybook
- **Version Control:** Git, GitHub, GitLab, Bitbucket
- **Code Review & Collaboration:** Github (*via pull requests*)

Agile & Scrum Methodologies

- **Methodologies:** Scrum, Kanban, TDD, BDD
- **Tools:** Jira, Confluence, GitHub Projects
- **Documentation:** Markdown

Software Architecture & Design Patterns

- **Architecture Patterns:** Microservices, Serverless, Monolithic, Event-Driven, CQRS
- **Design Patterns:** MVC, MVVM, Repository, Factory, Observer, Strategy, Singleton
- **Code Organization:** Monorepo, Micro-frontends, Feature-based architecture, Domain-Driven Design
- **Best Practices:** SOLID principles, DRY, KISS, Clean Code, 12-Factor App
- **API Design:** RESTful, GraphQL, gRPC, WebSocket, WebRTC

Performance Optimization & Scalability

- **Asynchronous Job Queues:** AWS SQS + Lambda/Fargate workers
- **Caching Strategies:** Redis/Memcached for session/data caching, HTTP caching with CloudFront/Traefik
- **Frontend Performance Optimizations:** Critical CSS, preloading, prefetching, code splitting, bundle analysis, tree shaking
- Database indexing, read replicas, partitioning (RDS), query optimization, connection pooling

Security & Compliance

- **Security Practices:** OWASP Top Ten, GDPR/CCPA, Data Privacy
- **Authentication:** OAuth 2.0, JWT, Session Management
- **Encryption:** SSL/TLS, Data at Rest/Transit
- **Security Tools:** AWS WAF, Security Groups, IAM

Performance & Optimization

- **Frontend:** Bundle optimization, Code splitting, Tree shaking
- **Backend:** Query Optimization, Caching Strategies, Load Balancing
- **Infrastructure:** Auto-scaling, Load Testing, Capacity Planning

Collaboration & Communication

- **Team Tools:** Slack, Microsoft Teams, Zoom
- **Code Review:** GitHub
- **Knowledge Sharing:** Technical Documentation, Runbooks, Architecture Decision Records (**ADRs**)

Principles & Practices

- **Infrastructure as Code & Environment Consistency:** Defined and versioned cloud resources (*VPCs, ECS/Fargate clusters, RDS replicas, ElastiCache, SQS queues, S3 buckets*) with Terraform, and used Docker Compose locally so development, staging, and production environments remained identical.
- **Continuous Integration & Continuous Delivery (CI/CD):** Built GitHub Actions workflows (*and Fabric scripts where needed*) to install dependencies, run lint/type checks, execute unit/integration/end-to-end tests, and then deploy to AWS (*via CodeDeploy*), Heroku, Netlify, or Vercel using zero-downtime or canary strategies.
- **Test-Driven Development & Automated Testing:** Wrote tests before or alongside feature code: PyTest/Go tests for backend services, Jest/Vitest for JavaScript/TypeScript units, React Testing Library for component tests, and Cypress/Playwright for end-to-end flows. Blocked merges on failing test suites to guarantee behavior and prevent regressions.
- **Performance Optimization & Scalability by Design:** Architected an event-driven scraping pipeline (*SQS to Lambda/Fargate to Step Functions to RDS/ElastiCache*) for parallel web scraping; tuned front ends with critical CSS

inlining, deferred scripts, lazy-loading images, code splitting, dynamic imports, and service workers; and implemented RDS read replicas and Redis caching for low-latency data.

- **Security by Design:** Enforced HTTPS, CSRF protections, JWT authentication, and secure headers (*Helmet/Lusca*) in all services; followed least-privilege IAM roles and AWS WAF rules; and conducted regular vulnerability scans and dependency audits.
- **Observability & Resilience:** Instrumented distributed tracing (*AWS X-Ray*), metrics and alarms (*CloudWatch*), error tracking (*Sentry*), and HTTP request logging (*Morgan/express-status-monitor*). Employed circuit-breaker patterns and retry/backoff in Step Functions so failures were contained and recovered gracefully.
- **DevOps Automation & Developer Experience:** Authored Makefile targets and BASH scripts (e.g., *make dev, make build, make test, make clean*) to provision local WordPress VIP environments and headless site stacks with a single command. Reduced onboarding time from hours to minutes and eliminated manual environment drift.
- **Modular & Reusable Architecture:** Broke backend code into discrete services (*Django apps for signup/onboarding, team management, uptime monitoring, support tickets; Node.js microservices for GraphQL API*) and frontend code into reusable React/Vite components (*forms via Formik/Yup, dashboard widgets, drag-and-drop trip planners*). Built Gatsby plugins and a WordPress theme boilerplate so new sites and features could be spun up rapidly.
- **Agile Collaboration & Continuous Feedback:** Worked in two-week sprints: participated in daily stand-ups, backlog refinements, and sprint retrospectives. Paired with UI/UX designers on prototypes (*vertical-video modules, Gatsby.js/Next.js features*) to gather early feedback, then iterated based on Lighthouse audit results and end-user testing.
- **Continuous Documentation & Knowledge Sharing:** Maintained Confluence playbooks (*vertical-video encoding, local WordPress VIP setup, API specifications, performance audit runbooks*) and kept README files in each repository up to date. Provided clear runbooks for onboarding, troubleshooting, and performance monitoring so that developers, DevOps, and support teams always had a single source of truth.

Education

Bachelor of Science in Information Technology

University of Immaculate Conception

Davao City, Davao Del Sur, Philippines

Academic Year: 2010 -2014