

Michael Pelayo Mariano

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SUMMARY

Experienced Software Engineer with over 7 years of experience in IT and software development, with a passion for creating innovative and scalable web solutions.

Proven track record in the computer software industry, focusing on full-stack development and software infrastructure.

With a Bachelor's degree in Computer Science, possess a solid understanding of software design patterns and architectural principles.

Collaborative team player who values clean, maintainable code and clear documentation.

Continuously seek opportunities to improve systems using best practices in development, DevOps, and automation.

EXPERIENCE

Senior Full Stack Engineer

Self-Employed

Jan 2025 - Present

- Architected and implemented end-to-end web applications using cutting-edge AI-assisted development platforms such as **Bolt.new**, **Lovable.dev**, **Replit**, and **Cursor** to accelerate delivery while maintaining high code quality and scalability.
- Designed robust backend services leveraging **Supabase's edge functions**, **Row-Level Security (RLS)**, and advanced authentication workflows (OAuth, JWT) to ensure secure, performant, and maintainable systems.
- Employed modern deployment pipelines with **Vercel** and **Netlify**, incorporating CI/CD best practices for seamless, zero-downtime releases.
- Spearheaded the integration of **AI-driven automation** tools to optimize software development lifecycle processes, including automated code generation, intelligent debugging, and test automation.
- Utilized AI to enhance developer productivity by automating repetitive coding tasks, enabling rapid prototyping, and facilitating continuous generation, intelligent machine learning-assisted code reviews and refactoring suggestions.
- Engineered highly customizable Shopify e-commerce solutions, utilizing **Liquid templating**, **Shopify APIs**, and webhooks to extend platform capabilities and integrate third-party services such as payment gateways, inventory management, and marketing automation tools.
- Implemented responsive UI/UX designs with performance optimization to maximize conversion rates.
- Applied best practices in **SEO**, accessibility, and security to deliver enterprise-grade online stores.
- Advocated and implemented software engineering best practices including modular architecture, **component-driven development**, state management with React Query and Context API, and thorough **testing strategies** (unit, integration, E2E).
- Experienced in Agile methodologies and cross-functional collaboration to align solid technology solutions with business goals.

Senior Full Stack Engineer

Cognitus

Oct 2023 - Jan 2025, Dallas, Texas, United States

- Played a pivotal role in the enhancement of the **AI-driven Contract Lifecycle Management (CLM)** platform and mobile version, **LambdaX**, which boasts enterprise-grade integration capabilities, a responsive and adaptive user interface, and a robust suite of functionalities tailored for modern contract management workflows. This project built with **react and react native**.
- Architected an advanced **Rich Text Editor** leveraging the **Lexical framework (React, TypeScript)**, similar to platforms like Google Docs and PandaDoc.
- This editor incorporates features such as **real-time collaborative editing**, sophisticated **redlining mechanisms**, and **AI-driven autocomplete functionalities**, all seamlessly integrated into the LambdaX ecosystem.
- Developed and integrated a **context-aware autocomplete** and suggestion engine within the rich text editor and workflow management tools, significantly optimizing the efficiency of business contract processes through intelligent contextual recommendations and predictive text capabilities.
- Engineered and implemented high-performance **RESTful APIs** utilizing **FastAPI** and **Django**, ensuring seamless interoperability between the Rich Text Editor, Workflow Management panel, and backend services.
- This design facilitates efficient data exchange, enhances user interactions, and supports scalable architecture.
- Designed and established a robust **Continuous Integration/Continuous Deployment (CI/CD)** pipeline utilizing Azure DevOps, which streamlines the development lifecycle, automates testing and deployment processes, and enables efficient migration strategies for continuous delivery of updates and features.

Full Stack Developer

Webiny

Jan 2020 - Aug 2023, United Kingdom

- Contributed to the development of a **student community platform** for both web and mobile applications utilizing **React.js**, **React Native**, and **Firebase**.
- This project facilitated seamless communication and user interaction through real-time data synchronization and efficient state management.
- Engineered a **Progressive Web Application** for a furniture retailer, delivering an engaging and high-performance shopping experience.
- Leveraged React and **Service Workers** to enable offline access, **caching strategies**, and responsive design, ensuring optimal performance across devices.

- Developed an advanced web and mobile application for health monitoring and fitness coaching, incorporating real-time analytics and **RESTful APIs** built with **Vue**.
- This application enables users to track health metrics, providing insights through data visualization and personalized coaching recommendations.
- Focused on **scalable systems** and **modular architecture**, utilizing design patterns that promote maintainability and extensibility.
- Implemented **Infrastructure as Code (IaC)** using **Terraform** to automate the provisioning and management of cloud resources, enhancing deployment efficiency and consistency across development and production environments.
- Collaborated closely with **cross-functional teams**, employing Agile methodologies and participating in Scrum ceremonies to ensure timely project delivery.
- Fostered a culture of continuous improvement teams, employing feedback, optimizing development workflows.

Software Engineer

CodeUpStart

Aug 2018 – Jan 2020, Melbourne, Victoria, Australia

- Developed distributed microservices using **Python (FastAPI)**, ensuring scalability and high availability with global load balancing configured via Azure Traffic Manager.
- Processed over 1 million daily records using asynchronous programming in **Python (asyncio and Celery)**, optimizing performance for high-volume data pipelines and background task processing.
- Built robust platform APIs for **Microsoft Edge extensions** using **Python** and **JavaScript/TypeScript** frameworks, enabling seamless storage synchronization and persistent messaging for extension developers.
- Built an internal web application using **PHP** and **Laravel** to analyze user search behavior, summarizing key insights for the business.
- Developed cross-platform applications using **React, React Native**, enabling seamless user experiences on both iOS and Android.
- Implemented features such as real-time data synchronization, push notifications, and responsive UI design, enhancing user engagement and functionality.
- Developed a **Python-based Companion App** leveraging machine learning models to provide smartphone diagnostics and insights when connected to Windows desktops, enhancing device monitoring and user feedback.

Software Engineering Intern

IBM Philippines

Oct 2017 – Aug 2018, Philippine

- Focused on **frontend development** with **React** and **Angular**, building reusable components from **Figma designs**.
- Implemented **responsive layouts** and collaborated with UI/UX teams to refine user experience.
- Contributed to **bug fixing** and **enhancements** across multiple web applications.
- Assisted in maintaining backend systems, resolving issues in **Python (Django)** and **Laravel** projects.
- Worked with **API integrations** and debugging to ensure smooth frontend-backend communication.
- Gained experience in **team collaboration**, code reviews, and following agile workflows.

EDUCATION

Bachelor's Degree (B.Sc.) in Computer Science

Ateneo de Manila University • Mar 2013 – Apr 2017

CERTIFICATIONS

Certified JavaScript Expert

HackerRank

Certified Full-Stack Engineer

Triplebyte

SKILLS

JavaScript, TypeScript, SQL, Python, PHP, HTML5, CSS3

React.js, React Native, Next.js, Vue.js, Laravel, Django, FastAPI, Express, NestJS, Shopify

RESTful APIs, GraphQL, API Gateway, OAuth

MongoDB, MySQL, PostgreSQL, Firebase, Supabase

AWS, Azure, GCP, Docker, Kubernetes, Git, GitHub, Bitbucket, GitLab, PWA, Responsive Design, Cross-Browser Compatibility, CI/CD Pipelines, Terraform, Docker Containers, Kubernetes Orchestration, Azure DevOps

JIRA, Trello, Confluence, Slack, Teams, Asynchronous programming, Load Balancing, Data Scaling, Liquid templating, Shopify APIs, webhooks, SEO, accessibility, and security
