

Michael Pelayo Mariano

Senior FullStack Engineer

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PROFESSIONAL SUMMARY

- I am an experienced Software Engineer with over 7 years of experience in IT and software development, with a passion for creating innovative and scalable web solutions.
- I have a proven track record in the computer software industry, focusing on full-stack development and software infrastructure. With a Bachelor's degree in Computer Science, I possess a solid understanding of software design patterns and architectural principles.
- I am a collaborative team player who values clean, maintainable code and clear documentation. I continuously seek opportunities to improve systems using best practices in development, DevOps, and automation.

TECHNICAL PROFICIENCIES

Programming Languages

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

Frameworks/Libraries

React.js, React Native, [Next.js](#), [Vue.js](#), Laravel, Django, Flask, FastAPI, Express, NestJS, Shopify

API Development

RESTful APIs, GraphQL, API Gateway, OAuth

Database Technologies

MongoDB, MySQL, PostgreSQL, Firebase, Supabase

Cloud Services

AWS, Azure, GCP, Docker, Kubernetes

Version Control

Git, GitHub, Bitbucket, GitLab

Web Development

PWA, Responsive Design, Cross-Browser Compatibility

DevOps

CI/CD Pipelines, Terraform, Docker Containers, Kubernetes Orchestration, Azure DevOps

Agile & Collaboration Tools

JIRA, Trello, Confluence, Slack, Teams

Performance Optimization

Asynchronous programming, Load Balancing, Data Scaling

PROFESSIONAL EXPERIENCE

Senior Full Stack Engineer

Self-Employed

Jan 2025 - Present

Key Responsibilities and Achievements:

- **Full-Stack Development** 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.
- **AI Automation Platforms** 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 improvement through machine learning-assisted code reviews and refactoring suggestions.
- **Shopify Store Development** 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.
- **Technical Leadership & Best Practices** 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 technical solutions with business goals.

Senior Full Stack Engineer

Cognitus - Dallas, Texas, United States

Full-time, Contract, Remote | Oct 2023 - Jan 2025

Key Responsibilities and Achievements:

- **Full-Stack Development** 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.
- **Rich Text Editor Development and integrate into CLM** Architected an advanced Rich Text Editor leveraging the Lexical framework (React and Vue), 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.

- **AI-Driven Autocomplete and Suggestion Mechanism** 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.
- **RESTful API Design and Development** 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.
- **CI/CD Pipeline Implementation** 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 - United Kingdom

Full-time, Remote | Jan 2020 - Aug 2023

Key Responsibilities and Achievements:

- **Full-Stack Development** 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.
- **Progressive Web Application (PWA)** 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.
- **Health Monitoring Application** 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.
- **Software Architecture** Established comprehensive development guidelines and made strategic architectural decisions based on industry best practices. Focused on scalable systems and modular architecture, utilizing design patterns that promote maintainability and extensibility.
- **DevOps Practices with Terraform** 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.
- **Collaboration & Agile Practices** 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 and iterative feedback, optimizing development workflows.

Software Engineer

CodeUpStart - Melbourne, Victoria, Australia

Full-time, Hybrid | Aug 2018 - Jan 2020

Key Responsibilities and Achievements:

- **Microservices Architecture** Developed distributed microservices using Python (FastAPI and Flask), ensuring scalability and high availability with global load balancing configured via Azure Traffic Manager.
- **Asynchronous Programming & Data Handling** Processed over 1 million daily records using asynchronous programming in Python (asyncio and Celery) and Go, optimizing performance for high-volume data pipelines and background task processing.
- **API Development** Built robust platform APIs for Microsoft Edge extensions using Python and JavaScript/TypeScript frameworks, enabling seamless storage synchronization and persistent messaging for extension developers.
- **Data Analysis Tools** Built an internal web application using PHP and Laravel to analyze user search behavior, summarizing key insights for the business.
- **Full-Stack Development** 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.
- **Companion App Development** 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 - Philippine

Full-time, On-site | Oct 2017 - Aug 2018

Key Responsibilities and Achievements:

- **Back-End Development** Designed and developed backend web services using Python (Flask and Django), Laravel, and internal Amazon frameworks to help fulfillment center operators manage associates' labor capabilities effectively and reliably.
- **Database Management** Leveraged Oracle SQL for scalable and optimized data storage solutions, integrating efficiently with Python-based backend systems.
- **Front-End Development** Built responsive, interactive front-end interfaces using Angular, React, React Native, and Bootstrap to enhance user experience across web and mobile platforms.
- **UI/UX Feedback Integration** Presented design concepts to engineering and operations teams, incorporating UI/UX feedback to enhance usability.
- **Web Widget Development** Contributed to the development of web widgets for video game landing pages, using JavaScript for improved SEO and user engagement.

EDUCATION

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

Ateneo de Manila University

Mar 2013 - Apr 2017

CERTIFICATIONS

Certified JavaScript Expert
Certified Full-Stack Engineer

HackerRank
Triplebyte