

# Nathanael Joshua M. Labios, Ph.D.

Lead Full Stack Engineer | Enterprise Software Architect | Cloud & AI Solutions Engineer  
Pasig, PH | +63 968 851 7848 | joshualabios92@gmail.com | linkedin.com/in/njmlabios

## PROFILE

---

Lead Full Stack Engineer with 8+ years of experience architecting, modernizing, and delivering enterprise software platforms across insurance, healthcare, banking, fintech, and capital markets. Experienced in leading engineering teams, designing scalable distributed systems, establishing technical standards, and delivering cloud-ready solutions using the Microsoft technology stack. Recently focused on AI-assisted software engineering, LLM integration, and developer productivity through modern AI tooling.

## EDUCATION

---

### SELINUS UNIVERSITY OF SCIENCES AND LITERATURE

Doctor of Philosophy in Information Technology (Ph.D.)

Dissertation: RGSi Lux: Web-Based E-Commerce System Software For Rodstark Global Solutions Innovations

London, UK

2023 - 2024

### UNIVERSITY OF ASIA AND THE PACIFIC

Master's in Information Technology (MIT)

Capstone: iTEAMS: Web-Based Task Management System

Pasig, PH

2020 - 2023

### INFORMATICS INTERNATIONAL COLLEGE

Bachelor of Science in Information Technology (BSIT)

Capstone: Sta. Lucia East Grand Mall Billiard and Bowling Hall Management System

Rizal, PH

2015 - 2018

## WORK EXPERIENCE

---

### MYRIDIOUS

Mar 2023 - Present

Makati, PH

#### Lead Full Stack Engineer

Mar 2025 – Present

- Architected and delivered enterprise-grade .NET applications and microservices supporting insurance technology platforms serving thousands of users and business stakeholders.
- Improved application performance by up to 80% through database optimization, caching strategies, and architecture enhancements, significantly reducing API response times and system bottlenecks.
- Strengthened enterprise security posture by implementing authentication, authorization, and data protection mechanisms, contributing to a 50% reduction in security-related risks and vulnerabilities.
- Mentored and guided development teams through architecture reviews, code reviews, and engineering best practices, improving code quality and development consistency by approximately 40%.
- Collaborated with DevOps teams to enhance CI/CD pipelines and containerized deployments, reducing deployment effort by 70% and improving release reliability across environments.

#### Senior Full Stack Engineer

Mar 2023 – Mar 2025

- Spearheaded architecture and technical design initiatives across multiple enterprise applications, aligning business objectives with scalable and maintainable software solutions.
- Improved application scalability and throughput by 60% through performance optimization and modernization.
- Spearheaded adoption of microservices, Docker, and Kubernetes, reducing deployment complexity by 50% while improving operational flexibility and scalability.
- Architected scalable enterprise-grade security controls, authentication frameworks, and data protection standards across critical business applications.
- Modernized legacy systems into cloud-ready .NET platforms, reducing technical debt by 40% and improving deployment reliability and maintainability.

**Enterprise Exposure:** Jackson and Coker (Atlanta, GA, USA), Insurity (Hartford, CT, USA)

## SOFTWARE FARM INTERNATIONAL, INC.

Pasig, PH

Aug 2018 - Feb 2023

### Senior Software Engineer

Aug 2020 – Feb 2023

- Delivered and supported 80+ enterprise software solutions across banking, fintech, securities, and financial services organizations throughout the Philippines.
- Designed and established scalable enterprise applications that improved operational efficiency by up to 50% across multiple client environments.
- Converted complex business requirements into technical architectures, system specifications, and production-ready solutions for mission-critical platforms.
- Established reusable development standards and implementation frameworks that accelerated project delivery by approximately 60%.
- Produced technical documentation, solution designs, and implementation artifacts that improved maintainability and reduced onboarding effort by 40%.

### Software Engineer

Aug 2018 – Aug 2020

- Developed automation solutions that reduced manual operational and implementation effort by approximately 70%, improving overall team productivity.
- Supported deployment, maintenance, and implementation of enterprise applications across multiple production and client environments.
- Assisted in onboarding developers and end users through technical training, documentation, and implementation support, reducing ramp-up time by approximately 40%.
- Contributed to enterprise modernization initiatives that improved maintainability, stability, and compliance with software engineering best practices.

**Enterprise Exposure:** Philippine Stock Exchange (PSE), GCash, Odoo, BDO, BPI Philstocks, Timson Securities, JPMorgan Chase, Wealth Securities, RCBC, Security Bank, Chinabank, Metrobank, COL Financial, and ABCAP Securities.

## AI & LLM EXPERIENCE

---

- Utilized AI-assisted software engineering practices that accelerated feature delivery by approximately 30% across frontend and backend development initiatives.
- Integrated enterprise AI services including OpenAI, Gemini, and Claude into modern applications, enabling intelligent automation, conversational experiences, and workflow optimization.
- Delivered AI-powered automation solutions that reduced manual operational effort by up to 60% while improving business process efficiency and user experience.
- Developed advanced prompt engineering frameworks that improved output consistency and automation reliability while increasing development productivity by over 200%.
- Established AI-enhanced development workflows utilizing GitHub Copilot, Cursor AI, Lovable AI, Figma AI, and SQL Prompt, accelerating solution delivery and prototyping by up to 50%.

## TECHNICAL LEADERSHIP

---

- Led the architecture and delivery of enterprise software solutions across insurance, healthcare, banking, and financial services.
- Mentored engineers through code reviews, technical guidance, and architecture discussions while promoting engineering best practices.
- Collaborated with business stakeholders, QA, and DevOps teams to deliver scalable, secure, and maintainable enterprise applications.
- Drove modernization initiatives involving microservices, containerization, CI/CD, and cloud-ready architectures.
- Championed AI-assisted development practices and LLM integration to improve engineering productivity and software delivery.

## **PERSONAL PROJECTS**

---

### **COMMERCIAL PRODUCT**

Jan 2026 – Jul 2026

Project Head & Co-Developer

Title: LAVA Workforce .NET – Enterprise Payroll & Workforce Management System

Overview: Led the architecture and development of a modern enterprise payroll and workforce management platform for Philippine businesses. Developed enterprise payroll, workforce management, statutory compliance, RBAC, reporting, offline licensing, and database administration modules.

Tech Stack: VB.NET WinForms (.NET Framework 4.8), Microsoft SQL Server, ADO.NET, RDLC Reports, Stored Procedures, GDI+, Windows Services

### **PH.D. DISSERTATION**

Aug 2023 – Sep 2024

Project Head & Software Architect

Title: RGS Lux – Enterprise E-Commerce Platform

Overview: Directed the architecture and development of an AI-powered enterprise e-commerce platform with POS, inventory management, RBAC, reporting, and deployment services.

Tech Stack: ASP.NET Core, Angular, Microsoft SQL Server, REST APIs, IIS

### **MASTER'S CAPSTONE**

Apr 2022 – Jul 2023

Project Head & Software Architect

Title: iTEAMS – Web-Based Task Management System

Overview: Led the design and development of a scalable task management platform with RBAC, workflow automation, reporting, and deployment infrastructure.

Tech Stack: Laravel, VB.NET, Angular, Microsoft SQL Server, REST APIs, IIS

### **INTERNAL PROJECT**

May 2018 – Aug 2018

Software Engineer

Title: RGS Documentation Generator

Overview: Developed an internal document automation platform for generating employment contracts, acknowledgements, affidavits, and personnel documents. Implemented configurable document templates, e-signature workflows, employee record management, reporting, and predictive analytics to streamline HR documentation processes.

Tech Stack: VB.NET, Microsoft SQL Server

### **BACHELOR'S CAPSTONE**

Oct 2017 – Mar 2018

Lead Developer

Title: Sta. Lucia East Grand Mall Billiard and Bowling Hall Management System

Overview: Designed and developed a business management platform for bowling and billiard operations featuring reservations, queue management, billing, inventory control, barcode integration, SMS notifications, customer administration, and operational reporting.

Tech Stack: VB.NET, Microsoft SQL Server

### **SOFTWARE PROJECT**

Jan 2017 – Mar 2017

Software Developer

Title: Maics Gym Management System

Overview: Developed a gym management platform supporting membership administration, subscription management, class scheduling, billing, inventory control, barcode-based identification, and operational reporting for day-to-day fitness center operations.

Tech Stack: VB.NET, Microsoft SQL Server

## TECHNICAL KNOWLEDGE AND SKILLS

---

### PROGRAMMING LANGUAGES

- C# (8 years)
- VB.NET (8 years)
- ASP.NET (8 years)
- ASP.NET Core (8 years)
- C++ (8 years)
- PHP (5 years)
- Python (5 years)
- Java (5 years)
- JavaScript (5 years)
- TypeScript (5 years)

### FRAMEWORKS & TECHNOLOGIES

- HTML (8 years)
- CSS (8 years)
- Angular (8 years)
- REST API (8 years)
- Swagger (8 years)
- Postman (8 years)
- SASS (6 years)
- Node.js (5 years)
- Vue.js (5 years)

### CLOUD, DEVOPS, AND INFRASTRUCTURE

- IIS (8 years)
- GitHub (8 years)
- Azure DevOps (5 years)
- Docker (5 years)
- Kubernetes (5 years)

### SOFTWARE ARCHITECTURE

- Stored Procedures
- N-Tier Architecture
- Microservices
- Application Programming Interface (API)
- Automation
- Database Migration
- Project Management

### DATABASE MANAGEMENT SYSTEMS

- Microsoft SQL Server (8 years)
- MySQL (8 years)
- SQLite (8 years)
- PostgreSQL (5 years)
- MariaDB (5 years)
- Oracle (4 years)
- MongoDB (4 years)

### AI PLATFORMS & TOOLS

- SQL Prompt (4 years)
- ChatGPT (3 years)
- OpenAI API (2 years)
- Gemini API (2 years)
- Claude AI (2 years)
- GitHub Copilot (2 years)
- Claude Code (1 year)
- OpenAI Codex (1 year)
- LangChain (1 year)
- LangGraph (1 year)
- Cursor AI (1 year)
- Lovable AI (1 year)
- Figma AI (1 year)

### AI ENGINEERING

- Prompt Engineering (4 years)
- AI-Assisted Development Workflows (3 years)
- AI-Powered Automation (3 years)
- LLM Integration (3 years)
- AI Agents (2 years)
- Retrieval-Augmented Generation (2 years)
- AI Workflow Orchestration (2 years)
- Context Engineering (2 years)
- Harness Engineering (1 year)
- Loop Engineering (1 year)

### REPORTING TOOLS

- HTML Reports
- SAP Crystal Reports
- Tableau
- Microsoft Power BI

## **RESEARCH AND PUBLICATIONS**

---

### **RGSi LUX: WEB-BASED E-COMMERCE SYSTEM SOFTWARE FOR RODSTARK GLOBAL SOLUTIONS INNOVATIONS**

Doctoral Dissertation, Selinus University of Sciences and Literature (2024)

### **ITEAMS: WEB-BASED TASK MANAGEMENT SYSTEM**

Master's Capstone Project, University of Asia and the Pacific (2023)

### **NOSQL: DEEPER EXPLORATION TOWARDS THE CURRENT SILVER BULLET FOR BIG DATA ANOMALIES**

Academic Research Paper, University of Asia and the Pacific (2020)

## **CERTIFICATIONS**

---

### **ARTIFICIAL INTELLIGENCE AND LARGE LANGUAGE MODELS**

- IBM AI Developer (IBM, Jul 2026)
- Generative AI for Software Developers (IBM, Jul 2026)
- Foundation: Monitoring Production Agents (LangChain, Jul 2026)
- Foundation: Introduction to LangSmith Deployment (LangChain, Jul 2026)
- Foundation: Introduction to LangGraph (LangChain, Jul 2026)
- Foundation: Introduction to LangChain (LangChain, Jul 2026)
- GitHub Copilot Certification (Microsoft, Jul 2026)
- Google AI Essentials (Google, Jun 2026)
- Google AI Professional (Google, Jun 2026)
- Agents and Workflows (OpenAI, Jun 2026)
- Applied AI Foundations (OpenAI, Jun 2026)
- AI Foundations (OpenAI, Jun 2026)
- Claude Code In Action (Anthropic, Jun 2026)
- Claude Code 101 (Anthropic, Jun 2026)
- Model Context Protocol: Advanced Topics (Anthropic, Jun 2026)
- Building With The Claude API (Anthropic, Jun 2026)
- Claude 101 (Anthropic, Jun 2026)
- Artificial Intelligence Fundamentals (IBM, Feb 2026)

### **SOFTWARE ENGINEERING**

- VB.NET Masterclass (Techademy, Mar 2026)
- Full Stack .NET Web Development (Techademy, Feb 2026)
- Foundational C# With Microsoft (Microsoft, Sep 2023)
- All About Angular (Angular PH, Jun 2023)

### **CLOUD AND DEVOPS**

- Hands-On Docker for Microservices (Techademy, Mar 2026)

### **PROJECT MANAGEMENT**

- Google Project Management Professional (Google, Jul 2026)

### **FOUNDATIONAL IT AND PROFESSIONAL DEVELOPMENT**

- Google IT Support Professional (Google, Oct 2023)
- Computer Science for Business Professionals (Harvard University, Jun 2022)
- Cybersecurity E-Degree (Eduonix Learning Solutions Pvt Ltd, Mar 2022)

### **LANGUAGE PROFICIENCY**

- EF SET English Certificate 63/100 (C1 Advanced) (EF SET, Feb 2026)