

Marvel Collin

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PROFESSIONAL EXPERIENCE

Software Laboratory Center, BINUS University
Laboratory Assistant

Jakarta, Indonesia
Sep 2024 – Sep 2025

- Taught **20+ laboratory subjects** to **700+ students** across **web, security, AI, networking, desktop apps, design, and data science**.

Full-stack Engineer, Research and Development Staff

Sep 2025 – Present

- Built **8 new internal applications and websites** and maintain **25+ existing BINUS platforms** and their production servers, used across **all 7 campuses** by **5000+ users**, covering feature work, bug fixes, security vulnerability checks, and performance tuning.
- Moved **10+ internal repositories** and their pipelines in-house onto self-hosted **Forgejo**, mirrored to GitHub for **GitHub Actions CI**, then raised throughput on high-traffic endpoints using **Redis caching** and **RabbitMQ** queues, guided by **performance monitoring**.

BINUS University

Jakarta, Indonesia

Software Engineer, Internship (held concurrently with the SLC role)

Aug 2025 – Present

- Delivered **4 new internal web platforms** from design to production and own their ongoing maintenance and post-launch fixes.
- Administer production **Linux** servers, covering uptime, patching, runtime upgrades, and routine maintenance.
- Cut release time from **15 minutes of hand-run steps** to a **5-minute automated deploy** with **GitHub Actions CI/CD** pipelines, and cut response times on the heaviest endpoints by rewriting hot backend logic and slow **SQL queries**.

E-Ducate Coding School

Pontianak, Indonesia

Robotics Technician & Tutor

Nov 2022 – Jun 2023

- Built the curriculum and taught **Arduino/ESP32** robotics with **Bluetooth, Wi-Fi, sensors, and 3D printing**; intern to full-time tutor.

PROJECTS

NRX - Multi-Framework Compliance Platform (ITEL, Singapore - Freelance)

Next.js, Go (Gin), PostgreSQL, Redis

- Owned the **full stack** of a platform that turns **ISO 27001** and other framework clauses into trackable controls with evidence, owners, and gap status, plus audit trails and AI matching of evidence to requirements.

Hiring System - Internal Recruitment Platform (ITEL, Singapore - Freelance)

React, .NET Core, PostgreSQL, Redis

- Developed the **full stack** of an AI-assisted hiring platform, covering candidate intake, automated screening, and evaluation.
- Modelled the recruitment pipeline from intake to hiring decision, cutting manual CV review by AI-scoring applicants.

Polaris - Point of Sale Web App (Sahabat Sentarum, Pontianak - Freelance)

React, Go (Gin), Turso

- Built a **point-of-sale** web app with **inventory, sales, purchases, and debt tracking**, **QRIS** payments, and daily Drive backups.

Owl Eyewear Smart Glasses App - Android & iOS (Jakarta - Freelance)

Swift, Kotlin

- Shipped **Android and iOS** companion apps for AI-powered smart eyewear with device pairing and hardware control.

MisVord - Discord Clone on a Self-Built PHP Framework

- Wrote the **MVC framework, ORM, and REST layer** from scratch, then built real-time chat on top with **WebSocket**.

Adobe Premiere MCP Server - AI-Driven Video Editing (Open Source)

TypeScript, Node.js

- Built an **MCP server** with **64 tools** driving Adobe Premiere Pro from an AI assistant over **CEP/ExtendScript**, with tools that verify their own writes and grade colour and loudness.

EDUCATION & ACHIEVEMENTS

BINUS University

Jakarta, Indonesia

Bachelor of Computer Science, GPA 3.55/4.00

2023 – May 2027 (expected)

Best Assistant Award, BINUS Software Laboratory Center, 2025

SMKS Kristen Immanuel 1 Pontianak, Vocational High School (Computer & Network Engineering)

2020 – 2023

Medallion of Excellence, LKS National 2022 • **Bronze Medallion**, ASEAN Skills Competition 2022 (Mobile Robotics)

SKILLS

Frontend: React, Vue, Next.js, shadcn/ui, Tailwind CSS • **Backend:** Go (Gin), C# (.NET Core), Node.js (NestJS), PHP (Laravel), Python

Infrastructure: Docker, Linux, CI/CD (GitHub Actions, Forgejo), Monitoring • **Data:** PostgreSQL, Redis, RabbitMQ, MongoDB

AI/ML: Python, Jupyter, Machine Learning, Deep Learning, NLP, Knowledge Distillation, Quantization, XAI

Languages: English (IELTS 6.5), Indonesian (Native)