

Karl Marx Roxas

Software Engineer

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Summary

Full Stack Software Engineer with 1 year of experience building and maintaining frontend applications using React, Angular, and TypeScript, with supporting backend experience in Express.js and Spring Boot. Proven ability to modernize legacy systems, improve performance, and deliver reliable user-facing features for enterprise clients and revenue-generating platforms.

Education

Bachelor of Science in Information Technology with Specialization in Multimedia Arts and Animation, in National University – Manila, Philippines Aug 2020 – June 2024

- Capstone: Ecotopia A Parallax Enabled Website for Climate Change Awareness with Interactive Mini Arcade Game
- GWA 3.41, Cum Laude

Experience

Associate Application Support Engineer & Software Engineer, Amihan Global Strategies – Remote Oct 2024 – present

- Led the full-lifecycle migration of BDO Internal System from Angular 7 to Angular 18, modernizing the legacy codebase to use the Ivy Engine and reducing estimated page load times by ~30%.
- Assigned as Software Engineer for internal ventures (Bahai Deals), and Chemlink (talent network powered by AI) using Next.js, ExpressJS, and Typescript, contributing to platforms generating to over \$12M in gross revenue.
- Exposed to AWS Environment and conducted code reviews to enforce Clean Architecture standards and practices.
- Provided L3 full-stack support for enterprise clients like BDO, and SMDC. Diagnosing complex code-level issues, maintaining 99% system uptime and delivering feature enhancements based on client requirements.
- Collaborated with stakeholders and internal teams to translate business and product requirements into clear, functional, and maintainable frontend components.

Skills

Frontend: React, Next.js, Angular, Typescript, HTML, CSS, React Native, Expo

Backend: Express.js, Spring Boot, Java

Tools & Platforms: Git, AWS, Docker, Kubernetes, Postman, Linux, Figma

AI: Prompt Engineer, GenAI

Projects

Personal Website

A digital portfolio and knowledge base to showcase technical projects, technical writing, and professional services.

RainyDays

Jan 2025

A family emergency fund system for countries where hospital bills arrive before help does.

- Enforces transparency, contribution limits, and abuse prevention
- Works without holding or pooling money

Publications

Ecotopia: A Parallax Enabled Website for Climate Change Awareness with Inter-active Mini Arcade Game

This study presents a website focused on raising awareness about climate change
Karl Marx Roxas, Vincent Regala, Elaine Maura San Roque, Karina Dela Cruz
[10.1109/HNICEM60674.2023.10589019](#) (HNICEM)

Certifications

freeCodeCamp Backend Development and APIs 2024