

Karl Marx Roxas

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| Summary | Software Engineer with experience in developing APIs using Typescript, Java, Spring Boot, and ExpressJS. Integrating it to front-end using Angular and used different technologies. Adaptable professional who quickly aligns technical solutions with business requirements while maintaining collaborative relationships with stakeholders. | |
| Skills | Frontend Technologies: HTML, CSS, Angular, React, Flutter, TailwindCSS, Ionic, PrimeNG Backend & Languages: Expressjs, Spring Boot, REST API, Java, Go, Typescript Databases: PostgreSQL, NoSQL, Neo4j, Supabase Methodologies & Tools: Docker, Kubernetes, OOP, Algorithms, Software Architectures, Clean Code, Git, GitHub, OpenAPI Specs Cloud: AWS, Heroku, Render | |
| Experience | Associate Application/Software Support Engineer Amihan Global Strategies | October 2024- Present <ul style="list-style-type: none">Improved application performance and security by 25% by upgrading from Angular 7 to Angular 18Part of a back-end team that developed a real-estate web app, fixed- critical bugs, and delivered new features aligned with business requirements.Implemented secure REST APIs based on PRD, integrating Ory Kratos Identity and Access Management (IAM) for user authentication and access control.Fine-tuned LLM prompts using AWS Bedrock and Meta Llama to enhance response accuracy and system efficiency.Built backend APIs in Node.js (Express.js, Typescript) with comprehensive OpenAPI specification, error handling, and robust edge cases management.Monitored AWS Web App Firewall (WAF) to detect and mitigate security threats by blocking malicious IP AddressesL3 support that resolved production bugs reported via Jira tickets, ensuring system stability and a seamless end-user experience. |
| Education | Bachelor of Science in Information Technology with Specialization in Multimedia Arts and Animation 3.41 CGWA Cum Laude <ul style="list-style-type: none">100% Scholar of National UniversityNU Safe MaintainerTech Lead in Google Developers Student Club (GDSC) | August 2020 - June 2024 National University Manila |
| Awards | Cum Laude National University Philippines | June 2024 |
| Publications | Ecotopia 2023 IEEE 15th International Conference on HNICEM https://ieeexplore.ieee.org/document/10589019 | 2023 |

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| Projects | Personal Website | 70% done |
| | My Personal Website where I post all services I offered and myself 🔗 https://karlroxas21.github.io <ul style="list-style-type: none">• Made using Angular, TailwindCSS, and GitHub Pages. | |
| | RainyDays | Work-in-progress |
| | Build your safety net <ul style="list-style-type: none">• A mobile (and web soon) app that tracks your emergency fund• You can create groups for your family, friends or anyone you want to track your RainyDays budget.• Made with React Native, Spring Boot, and Supabase. | |
| | Ecotopia | 2023-2024 |
| | College Capstone/Thesis <ul style="list-style-type: none">• A parallax-enabled website with mini 2D arcade game• Made with MongoDB, Expressjs, Angular, and Nodejs (MEAN)• Published in IEEE | |