




Ronel Mendoza

Senior Software Engineer

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PROFILE

Accomplished Senior Software Engineer with over 9 years of experience in building scalable, cloud-native applications and driving performance optimizations across both frontend and backend technologies. Expertise in architecting and implementing microservices with **Node.js**, **NestJS**, and **AWS**, as well as creating efficient **React** and **NextJS** applications. Strong leadership abilities, mentoring junior developers, and fostering collaboration with cross-functional teams to deliver high-quality software solutions. Proven ability in integrating **Redis** for caching, **Kafka** for event-driven architecture, and working with **SQL** and **NoSQL** databases for optimized data storage. Passionate about enhancing user experience through performance-focused frontend development, **React Native** mobile applications, and maintaining **cross-platform compatibility**. Committed to continuous learning and building robust, secure, and maintainable solutions.

PROFESSIONAL EXPERIENCE

Helpware, Senior Software Engineer 08/2023 – 06/2025 | Remote

- **Led the architecture and development** of **cloud-native microservices** using **Node.js**, **NestJS**, and **AWS**, optimizing system throughput by 40% and reducing response time by 30%.
- Refactored legacy applications into scalable, maintainable cloud-native services, improving deployment speed by 50%.
- **Optimized serverless architecture** using **AWS Lambda**, reducing costs and improving scalability for event-driven services.
- Developed **GraphQL APIs** to reduce data transfer costs by 25% and enhance client-side performance metrics by 35%.
- **Implemented Redis** for caching and message queuing, reducing database load and enhancing real-time data access by 40%.
- Integrated **Kafka** for event-driven architecture, allowing asynchronous processing and improved system scalability.
- **Improved application security** by implementing **OAuth 2.0** authentication, reducing unauthorized access incidents by 20%.
- **Led the development** of **React** components, ensuring a seamless, interactive user experience and optimizing performance.
- Utilized **NextJS** for **server-side rendering (SSR)**, improving SEO and reducing page load times by 25%.

- **Implemented Redux** for complex state management, ensuring consistent data flow and enhancing the scalability of frontend applications.
- Applied **Zustand** for managing simpler state in light weight components, improving performance and reducing boilerplate.
- Leveraged **React Router** for dynamic routing within the application, ensuring a smooth user experience across pages.
- Enhanced frontend performance using **lazy loading** and **code splitting**, reducing the initial load time by 20%.
- **Ensured cross-browser and cross-platform compatibility** of web applications, improving accessibility and user experience across different devices and browsers.
- Integrated **React Native** to build cross-platform mobile applications, enabling code reuse across iOS and Android platforms.
- Worked with both **SQL (PostgreSQL)** and **NoSQL (MongoDB, DynamoDB)** databases, creating hybrid data models that leveraged the strengths of both relational and non-relational databases for different system requirements.
- **Engineered automated CI/CD pipelines** with **Jenkins** and **Docker**, resulting in a 55% reduction in release cycle times and minimizing deployment errors.
- Developed and implemented **unit tests** using **Jest** and **Mocha**, ensuring code reliability and coverage across both frontend and backend.
- Mentored junior developers, conducting **code reviews**, and fostering best practices in cloud-based architecture and performance optimization.
- Collaborated with **UI/UX designers** to improve the overall user experience, ensuring consistency across web and mobile platforms.
- Worked with **cross-functional teams** to define technical solutions, gather requirements, and contribute to the overall success of **SaaS** projects.

Cognizant, Full Stack Engineer

07/2020 – 06/2023

- Designed and implemented **RESTful APIs** and backend services using **Node.js** and **Express.js**, optimizing request handling efficiency by 40%.
- Integrated **Firebase** for real-time database management and authentication, leading to better user management and data synchronization in the application.
- Migrated legacy monolithic applications to a **microservices architecture**, improving system scalability by 30% and flexibility for future development.
- Enhanced frontend performance using **Progressive Web App (PWA)** techniques, allowing users to interact with the application offline and increasing engagement.
- Worked with **Firebase** to implement **real-time data synchronization** and **authentication**, improving application performance and user experience.
- Built high-performance **React** applications, optimizing state management using **Redux** and improving data loading by 25%.
- Utilized **Zustand** for lightweight state management in simpler components, minimizing boilerplate code and improving overall performance.
- Integrated **Redis** for caching dynamic content, reducing page load times by 45% and enhancing user experience across high-traffic web applications.
- Utilized **Kafka** to implement a **message broker** for processing and distributing events asynchronously across microservices, improving system scalability.

- Collaborated with **product managers** and cross-functional teams to gather requirements, define technical solutions, and ensure alignment with business goals.
- Ensured **cross-browser** and **cross-platform compatibility** of web applications, improving accessibility and user experience across different devices and browsers.
- Automated deployment processes and built **CI/CD pipelines** using **GitLab CI** and **Docker**, reducing deployment errors by 35% and increasing overall release speed.

Mastercard, Full Stack Developer

05/2017 – 06/2020

- Developed and optimized **Node.js** backend services, ensuring high availability and performance for payment processing applications.
- Enhanced transaction security by integrating **JWT** authentication and **OAuth2** protocols, reducing unauthorized access incidents by 15%.
- Migrated legacy systems to **AWS** cloud infrastructure, decreasing operational costs by 20% and improving system reliability and uptime.
- Led efforts to scale backend services, increasing **request handling capacity** by 50% to accommodate growing transaction volumes.
- Designed **React** components to improve frontend performance, enhancing the user experience and reducing loadtimes by 25%.
- Integrated **Redux** for global state management across complex user flows, ensuring consistency in data representation and improving the app's scalability.
- Worked with **SQL databases** (PostgreSQL) for structured transaction data, optimizing complex queries and improving data retrieval speed by 30%.
- Utilized **MongoDB** for non-relational data storage, ensuring high availability and flexible schema management for user and product information.
- Contributed to the migration of a large-scale monolithic application to **microservices architecture**, improving deployment and scaling flexibility.
- Conducted **code reviews**, provided technical leadership, and collaborated with product teams to ensure alignment with business goals.

Peoplebank, Software Engineer Intern

10/2016 – 04/2017

- Assisted in the development of **Node.js** scripts to automate data processing tasks, saving 15 hours of manual work each week.
- Contributed to the design and implementation of **RESTful APIs**, improving system integration capabilities and enhancing overall service reliability by 25%.
- Worked primarily with **MongoDB** for unstructured data, implementing efficient querying and indexing strategies for fast data retrieval.
- Wrote unit tests using **Mocha** and **Chai**, increasing code coverage by 20% and improving code integrity across new deployments.

EDUCATION

University of the Philippines,
Bachelor's Degree / Computer Science

2012 – 2016

SKILLS

Programming Languages: JavaScript, TypeScript, Node.js, Java, Python

Frontend: React, NextJS, Redux, Zustand, React Native, JavaScript, TypeScript, HTML5, CSS3, SASS, LESS, TailwindCSS, Bootstrap, Material UI, Ant Design, Styled Components

Backend: Node.js, Express.js, NestJS, RESTful APIs, GraphQL, gRPC, WebSockets, FastAPI, Hapi.js

Databases: PostgreSQL, MySQL, MariaDB, MongoDB, Cassandra, DynamoDB, Redis, Elasticsearch, Firebase

Cloud Platforms: AWS (EC2, Lambda, S3, RDS, DynamoDB, API Gateway), GCP, Azure

CI/CD: Jenkins, GitLab CI, CircleCI, GitHub Actions, Travis CI, Docker, Kubernetes, Helm, Terraform

Microservices: Docker, Kubernetes, Istio, Service Mesh, AWS Lambda

Authentication & Security: OAuth 2.0, JWT, Passport.js, OAuth2.0, CORS, Rate Limiting, Input Validation

Message Brokers: Kafka, RabbitMQ, NATS, Amazon SQS, SNS

Testing: Jest, Mocha, Chai, Jasmine, Cypress, Selenium, Puppeteer, Playwright, Postman, Supertest

Version Control: Git, GitHub, GitLab, Bitbucket, SVN

Project Management & Collaboration: JIRA, Trello, Confluence, Slack, Basecamp

Others: Nginx, Apache, Varnish, WebSockets, Swagger/OpenAPI, API Documentation