JANEO MIGUEL TIONGSON
Lead Software Engineer

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Quezon City, PH

About Me

Passionate, meticulous and process-driven Software Engineer with 5 years of progressive experience in modern web and server technologies across diverse industries. Equipped with backgrounds in System Administration, Frontend and Backend Engineering, Database Management and Design, Software Architecture, Development Operations and Project Management. Quickly learns, masters and introduces new innovations and technologies to provide better solutions to technical challenges. Engages in development communities and provides insights, mentoring and training to others.

Skills

Technologies:

TypeScript, JavaScript, Node.js, React, React Native, Vue, Express, Next.js, NestJS, Webpack, Gatsby, jQuery, PHP, Laravel, WordPress, C#, ASP.net MVC, Entity Framework, C++, Java, VB.net

UI Libraries:

Material-UI, AntDesign, Sass, Styled Components, Theme UI, Framer Motion, GSAP 3, Bootstrap

Frontend Libraries:

Axios, Redux, SWR, React Query, Formik, React Hook Form

Backend Libraries:

TypeORM, Mongoose, Firebase SDK, Eloquent, Sequelize, Redis Pub/Sub, RxJs, Socket.io, GraphQL, REST API, Google Maps, PayPal, Stripe, Paymongo, DragonPay, TMDB, IMDB, RapidAPI, Twilio, Google Search, Google Analytics

Databases:

Microsft SQL Server, MongoDB, MySQL, PostgreSQL, Redis, Firestore, Firebase Realtime Database

Other Software:

FFMPEG, MakeMKV, VLC Open Library, Multer, NodeMailer, HLS.js, Puppeteer

Employment

Lead Software Engineer
REALM1000 Enterprise, Dagupan City, PH
August 2020 – July 2022

Project Alpha
- Responsible for overall Software Architecture and Development including Database Management, Backend and Frontend Engineering, Development Operations and UI/UX Research and Design
- Trained and mentored 5 Software Developers in frontend and backend development implementing Agile Kanban project management
- Simplified and created libraries for REST API, Database Queries, State Management and Message Brokers for maintaining code quality and consistency
- Created implementations in Azure, Docker and self hosted operating system environments for deployment and development operations generating cost-benefit analysis, performance reviews and IT Infrastructure requirements

Technologies: TypeScript, React, Next.js, NestJS, Node.js, Nginx, PM2, Windows Server 2019 Datacenter, Hyper-V, WSL, Ubuntu, Docker, Microsoft Azure, SQL Server 2017, Redis, Socket.io, PWA, GitHub Actions, GitHub Webhooks, Git

Project Caesar
- Responsible for project management, requirements engineering, system integration and technical consultations while ensuring project requirements and deliverables are met and on time
- Designed MicroService and API Specifications for integrating with company's existing software services
- Responsible for Development Operations and deployment and execution of project acceptance and sign off

Technologies: PHP, WordPress, MySQL, Apache, Postman, Nginx, Ngrok, Windows Server 2019 Datacenter, Hyper-V, Git

Project Auxilium
- Responsible for requirements engineering, agile sprint planning, generation of class and sequence diagrams, entity relationship diagram, and module specifications
- Provided company libraries, consultations and walkthroughs while maintaining on-premise remote servers to external team
- Created scripts, documentations and automations for deployments in multiple remote servers in PH and in US

Services:

Google Maps, PayPal, Stripe, Paymongo, DragonPay, TMDB, IMDB, RapidAPI, Twilio, Google Search, Google Analytics

Process:

Agile, Scrum, Kanban, Test-Driven Development, Feature-Driven Development

Tools:

Jest, Supertest, ESLint, Prettier, Git, Postman, Visual Studio Code, GitHub Actions, GitHub Webhooks, Trello, Jira, Lighthouse, PWA

Environments:

Nginx, IIS, Apache, Docker, Windows Server 2019, Hyper-V, Ubuntu Server, Red Hat Enterprise, Microsoft Azure, Firebase, Heroku, Vercel

Personal Projects

Next Page AutoPDF

A Node.js function that runs a headless browser, screenshots and generates PDF format out of it, used specifically to generate this Resume

Technologies: TypeScript, Node.js, Next.js, Material-UI, GraphQL, Puppeteer

GitHub Autocommiter

A simple cli-based program that generates commit messages from multiple files, stages and pushes them to remote

Technologies: TypeScript, Node.js, Git

Rakia Axie Infinity Tracker

A simple PWA for tracking account cryptocurrency earnings and statistics to be used as demonstration for guest speaker talk at Saint Mary's University

Technologies:

Technologies: TypeScript, React, Next.js, NestJS, Node.js, Nginx, PM2, Windows Server 2019 Datacenter, Hyper-V, Ubuntu, Docker, SQL Server 2017, PWA, Git

Project Streams
- Created Nodejs libraries and documentations to achieve pre-generated or on-the-fly transmuxing, transcoding and streaming of movies from encrypted source into 1080p, 720p and 480p Adaptive HTTP Live Streaming FORMAT
- Integrated with external software through built-in Nodejs libraries to generate desired format of output files
- Created a database and file server for classifying and effectively storing movie libraries

Technologies: TypeScript, React, Next.js, NestJS, Node.js, Material-UI, Nginx, PM2, Windows 10 Professional, Hyper-V, Docker, SQL Server 2017, Socket.io, MakeMKV, FFMPEG, HLS.js, Git

Project REALM1000 Network Support Website
- Collaborated with management for requirements engineering, UI/UX Research and Design, prototyping and Frontend Development.
- Optimized library for SMTP e-mail delivery service for mailing Customer Support Representatives, on-field staff, and management for generating support tickets.
- Rewrote codebase from JavaScript to TypeScript and migration to Material-UI from Theme-UI

Technologies: TypeScript, JavaScript, React, Next.js, Theme-UI, Material-UI, Vercel, Adobe XD, Git

Software Engineer (Remote)

REALM1000 Enterprise, Dagupan City, PH
November 2021 – July 2022

REALM1000 Subdistributor Site
- Responsible for the UI/UX Design, Development and Search Engine Optimization of the site achieving more than 10,000 visits per month
- Created a map overlay displaying personnel service territories using Google Maps API
- Created mailing service generated from client requests from site

Technologies: TypeScript, React, Next.js, Axios, Mongoose, NodeMailer, Google Maps, Google Search Console, GSAP 3, Adobe XD, Git, Vercel

Software Engineer (Remote)

REALM1000 Corp., Las Vegas, Nevada
August 2020 – July 2022

REALM1000 Ecommerce Site
- Responsible for the company's initial brand identity, company logo, SEO and online presence
- Executed the Transfer of Technology to company from DVRCluster's Initial ECommerce System
- Enhanced and refactored initial ECommerce System codebase into TypeScript for type safety and reliability
- Created and documented test case scenarios and end-to-end test scripts

Technologies: TypeScript, React, Next.js, Redux, Axios, Material-UI, Node.js, Express.js, MongoDB, Mongoose, Stripe, PayPal, GSAP3, Git, Adobe XD, Vercel, ESLint, Supertest, Jest

Software Engineer (Remote)

DVRCluster Technologies LLC., Las Vegas Nevada
August 2020 – July 2022

TypeScript, React,
Material-UI, Vercel, PWA

ETulod Ride Hailing App

Provided mentorship, development, technologies and consultations to student researchers for a full-stack server, client and mobile app for a tricycle ride hailing service

Technologies:
React, React Native, Node.js, Express, Twilio, Heroku, MongoDB

E-Cart POS

Provided consultations to sudent researchers for checkout and caching logic as well as database database management in an RFID based Point of Sale system

Technologies:
MySQL, VB.net

EZ-Fit Gym
Coaching Website

Provided Firebase services for its GraphQL API and file storage for images and assets

Technologies:
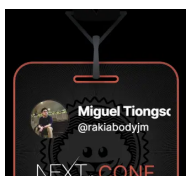Gatsby, GraphQL, Firebase, Firestore

Conferences

React Conf 2021
December 08, 2021

Next.js Conf
October 26, 2021

DVRCluster Ecommerce Site
- Responsible for the company's initial brand identity, company logo, SEO and online presence
- Created server and client boilerplates for the company's Initial ECommerce Site utilizing known external payment gateways, NoSQL database, frontend and backend frameworks

Technologies: JavaScript, TypeScript, React, Next.js, Redux, Axios, Material-UI, Node.js, Express, MongoDB, Mongoose, Stripe, PayPal, Git, Adobe XD, Vercel, ESLint

DVRCluster Movies and TV Shows Database Prototype Site
- Responsible for enhancement of UI/UX design and prototyping from provided wireframe and development of prototype website for company stakeholders and investors
- Utilized UI Libraries and external API to display categorized and updated lists of latest top rated movies and tv shows with movie posters, images and movie trailers displayed

Technologies: TypeScript, JavaScript, React, Next.js, Material-UI, Axios, Redux, IMDB API, TMDB API, YouTube API, Adobe XD, Git, Vercel, MongoDB

DVRCluster Streaming Libraries and Prototypes
- Collaborated with external software development teams for research and development of technologies for movie streaming generating documentations for transcoding and transmuxing methods
- Created initial libraries for transcoding, streaming, viewing and content delivery yielding efficient data delivery and faster loading, seeking and playing of video through a designed algorithm

Technologies: React, Next.js, Material-UI, Node.js, Express.js, Hls.js, FFMPEG, VLC Open Library, Git

Web Development Intern
PRIME Philippines, Quezon City, PH
August 2019 – March 2020

Aleph Core
- Spearheaded the update of of coding patterns, ECMAScript syntaxes and React.js' API for optimizations, better code readability and to accommodate compatibility with new third party external libraries
- Responsibile for development and optimizations of UI Components ensuring interoperability, performance and ease of use for handling more than 10 form component instances

Technologies: JavaScript, React, Laravel, React Hook Form, Redux, AntDesign, Styled Components, Apache, MariaDB, Eloquent, Webpack
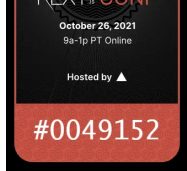
Web Application Developer / Researcher
MANRIC Builders and Designers, Nueva Vizcaya, PH
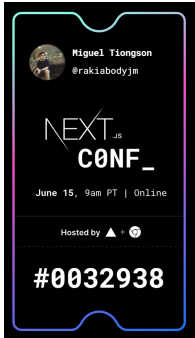August 2018 – May 2019

Project COMAS
- Systematized company management and weekly report generation for payroll and inventory resulting in a streamlined operation for 400 employees and multiple simultaneous projects
- Led student researchers in the development, planning, project management and documentation of a management system for inventory and employee bookkeeping, social security, health insurance and mutual funds

Technologies: PHP, Laravel, jQuery, Bootstrap, MySQL, Eloquent, Vue

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Next.js Conf
June 21, 2021

Miguel Tiongson
@rakiabodyjm

NEXT.js
C0NF_

June 15, 9am PT | Online

Hosted by ▲ + ⬡

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Education

Saint Mary's University
Bayombong, Nueva Vizcaya

BS in Information Technology
Graduate
April 2016 – December 2019

BS in Civil Engineering
Undergraduate
June 2012 – March 2016

System Administrator

Analytick Box Inc., Quezon City, PH
April 2017 – December 2018

- Developed and maintained system-wide network systems, hardware components confirming interoperation, connectivity and compatibility between remote and local cloud servers
- Developed and Documented Linux Server configurations to create a parallel IO Transfer between Network Storages achieiving 10–20 times faster transfer rates

Technologies: DM Multipath, MPIO, iSCSI, Linux SAN Storage, Ubuntu Server, Windows Server 2012 R2

Certificates

StackLeague Programming Tournament Participation
December 15, 2021

Guest Speaker – IT Week, Saint Mary's University
November 11, 2021