Michael John Eduave

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Full-stack and data engineer focused on solving high-friction business problems with code. Experienced in building and scaling real-time platforms, cost-effective data pipelines, and exploring the practical application of AI for workflow automation.

Skills

Languages: TypeScript, Python, Node.js, SQL

Frameworks & Libraries: React.js, Next.js, Svelte, Express.js, tRPC, Tanstack Query/Router, Zustand, Redux, Material UI, TailwindCSS, Chart.js, Zod, Sails.js

Cloud & Infrastructure: AWS (Lambda, DynamoDB, EC2, S3, SQS, SNS), Serverless Frameworks (SST, Serverless), Infrastructure as Code (Pulumi, Terraform), Docker, Containerization

Databases & Data: PostgreSQL, MongoDB, Redis, Elasticsearch, Data Modeling, ETL Processes, Data Pipelines, Data Integration, Geospatial Data Systems (Redis, OSRM), Web Scraping

Tools & Practices: Git, CI/CD (GitHub Actions, Jenkins, CircleCI, Vercel), Automated Testing (Playwright, Cypress, Puppeteer, Jest/Vitest), Monitoring & Observability (ELK Stack, CloudWatch), API Design (RESTful principles, End-to-End Type Safety), WebSockets, Build Tools (Vite, ESBuild, Webpack), Agile Methodologies

Experience

Full Stack Developer, Euclidean, Auckland, NZ   11/2023 - Present
- Developed and launched 3 core modules for a mental health web dashboard using TypeScript, Vite, and ESBuild within an SST monorepo, increasing overall practitioner satisfaction by 45%.
- Built scalable serverless functions (AWS Lambda, tRPC, ElectroDB) enabling streamlined data export via HTTP streams for the analytics team.
- Implemented responsive UIs for practitioner portal and youth app (Material UI, Zustand, Chart.js, TanStack), increasing practitioner onboarding efficiency by 30%.
- Engineered core features for pre/post-session outcome measurements via integrated surveys (React.js, SES, tRPC), providing critical clinical data points.

Data Engineer, Specter, London, UK   08/2020 - 02/2023
- Reduced AWS costs by 80% and improved pipeline reliability by migrating a managed Airflow instance to a custom data collection workflow using Pulumi.
- Decreased ETL pipeline execution time from 5 days to 1-2 days by implementing a multi-source data integration architecture (AWS S3, EC2).
- Designed and built an automated data enrichment system with VNC-enabled containers for human-in-loop verification (LinkedIn, Twitter, Google Search)
- Spearheaded development of a React.js/TypeScript platform to visualize and interact with collected data signals, improving client data accessibility.

Lead Engineer, Micab Systems, Cebu, Philippines   11/2019 - 08/2020
- Led and mentored a five-person team through a major technical upgrade, implementing automated pipelines for CI and CD while driving gradual TypeScript adoption.
- Oversaw development and scaling of real-time booking and fleet management systems, ensuring 99.99% uptime under increasing load.
- Directed architectural improvements for key systems, including geospatial engine and monitoring stack, focusing on cost optimization and reliability.

Software Engineer, Micab Systems, Cebu, Philippines   06/2016 - 11/2019
- Played a key role in building the initial real-time booking platform (Sails.js, WebSockets), scaling from 100 to 10,000+ vehicles and 150,000+ daily transactions.
- Engineered high-performance geospatial system (Redis, OSRM/Google Directions API), improving booking success rates from 15% to 85% and reducing costs from $15k to $1.5k/month.
- Developed and deployed a custom ELK monitoring stack with Slack integration, reducing critical incident response time from hours to minutes.
- Built the initial fleet management platform (React.js/Redux), enabling real-time tracking of 15+ operator KPIs.

Web Developer, Zoog Technologies, Cebu, Philippines   01/2015 - 06/2016
- Built a production-ready Small Town Lottery platform as my first full-stack web project, utilizing Nodejs, Meteorjs, and Amazon Web Services.
- Increased platform coverage by leveraging card payment terminals and 2G GPRS connectivity to act as outlets in remote provincial areas in the Visayas.

Projects

Pearl – https://pearly.chat
- AI-native assistant (chat and voice) that manages daily life logistics, with personas for tasks including event scheduling, pantry management, and personal finance. Aimed to support individuals and groups.
- Built with Typescript, Vuejs, AWS, SST, Google Gemini, PostgreSQL, vectorpg.

Auto Applai – https://github.com/michaeljohneduave/auto-applai
- Helps streamline job applications by automating the resume adjustment and thoughtfully filling up the application form by using the user's provided context and static information.
- Built with Typescript, Docker, Fastify, Model Context Protocol (MCP), Puppeteer.

Education

University of San Carlos, Philippines   2014
Bachelor of Science in Computer Engineering
Kwantlen Polytechnic University   2024
Technical Management and Services