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🐙 github.com/Marnel8

🔗 <https://me.mvsoftwares.space>

Education

Batangas State University - TNEU

Aug 2019 – Aug 2023

Bachelor of Science in Information Technology

Golden Country Homes, Alangilan, Batangas City

Major in Business Analytics

Work Experience

BatStateU - Digital Transformation Center

Feb 2023 – May 2023

Frontend Developer Intern

Onsite

- Designed and developed mockups and user interfaces for a **mobile application project** using **Figma** and **React Native**.
- Led the design and implementation of a **web application frontend** using **Figma**, **HTML5**, **CSS**, and **JavaScript**.
- Contributed to backend development for a **web application project** using **PHP** and **MySQL**.

Freelance Software Developer

Oct 2023 – Present

Software Developer

Remote

- Developed user-friendly frontends for web applications using **React**, **Next.js**, **Tailwind**, and **Redux Toolkit**, providing distinct interfaces for various functionalities.
- Built and maintained backends leveraging **Node.js**, **Express.js**, **MongoDB**, **MySQL**, **PostgreSQL**, and **RESTful APIs** for efficient data handling.
- Created a mobile application with **React Native** and integrated **Appwrite** as a backend-as-a-service.
- Implemented secure authentication with **Access and Refresh Tokens**.
- Automated API testing and validation workflows using **Postman**.

BatStateU - STEER Hub (TRIOE Project)

Nov 2024 – Present

University Research Associate (Full Stack Web Developer)

Onsite

- Developed and maintained responsive frontends for **TRIOE** and **BatStateU Marketplace** using **Next.js 15**, **TypeScript**, **TanStack Query**, **Shadcn UI**, and **Tailwind CSS**, focusing on performance and scalability.
- Built backend services with **Node.js**, **Sequelize**, and **MySQL**, ensuring modular and reliable system architecture.
- Implemented automated **testing workflows** (unit, integration, and end-to-end) to ensure code quality and reduce defects.
- Managed scalable deployments on a **Namecheap Dedicated Server (Ubuntu)**, leveraging **Docker** for containerization and **Nginx** for reverse proxy configurations.
- Established **CI/CD pipelines** with **GitHub Actions** to automate builds, testing, and deployments, improving release velocity and minimizing downtime.

Personal Projects

Most of my meaningful projects are showcased in detail on my portfolio: marnel-valentin.vercel.app

Web Portfolio | Website | Source Code

ReactJS | **Tailwind** | **Vite** | **Vercel**

- * Built a dynamic and interactive personal portfolio using **ReactJS**, **Tailwind CSS**, and **Framer Motion** to highlight projects and experience.
- * Bootstrapped with **Next.js 15** and deployed on **Vercel** for seamless performance and hosting.

Metamorphose.ai | Website | Source Code

Next.js 14 | **ReactJS** | **Node.js** | **Cloudinary**

- * Developed a SaaS platform with advanced image editing features such as **photo restoration**, **object removal**, **recoloring**, and **generative fill** using the **Cloudinary API**.
- * Implemented a **server-driven architecture** with **Next.js 14**, **TypeScript**, and **MongoDB**, styled with **Tailwind CSS** and **Shadcn UI**.

- * Integrated **Stripe** for payments and **Clerk + Webhooks** for authentication.

Mhar | *Source Code*

JavaScript | Node.js | Ollama | Llama 3.2

- * Created a Chrome Extension powered by **Llama 3.2** (via **Ollama**) that provides contextual AI insights directly within web pages.
- * Focused on efficient parsing, minimal resource usage, and seamless integration for a lightweight user experience.

Malinta Connect | *Website | Source Code*

Next.js 15 | Firebase | ReactJS | Tailwind

- * Developed a community platform for Brgy. Malinta, Los Baños, Laguna with features including **online report filing**, **appointment scheduling**, and **real-time request tracking**.
- * Implemented a secure authentication system and real-time interactions using **Firebase**.

Trainings and Certifications

Software Engineering Training | *Certificates*

DICT

- * Completed a **comprehensive software engineering course**, from fundamentals to advanced practices.

Cloud Computing Training | *Certificates*

DICT

- * Completed a **foundational cloud computing course**.

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, PHP, SQL, HTML5, CSS

Frameworks & Libraries: ReactJS, React Native, Next.js, Node.js, Express, NestJs, FastAPI, Redux, Zustand, TanStack Query, Tailwind CSS, Bootstrap, Sass

Databases & Storage: MySQL, PostgreSQL, MongoDB

Backend-as-a-Service (BaaS): Firebase, Supabase, Appwrite

ORM & Database Tools: Prisma, Sequelize, Mongoose

AI & LLMs: LLM integration (OpenAI, Claude, V0, etc.), LLM server deployment, AI-assisted tools (ChatGPT, Cursor, Claude, etc.)

Hosting & Cloud Providers: Namecheap, AWS

Testing: Jest, Vitest, Cypress

DevOps & Deployment: CI/CD with GitHub Actions, Docker, Nginx, Apache

Developer Tools: Git, Postman, VSCode, PyCharm, Eclipse, Figma, Arduino IDE

IoT & Hardware: Basic knowledge of TRIOE Board, ESP32, sensors, actuators

Operating Systems: macOS, Windows, Linux (Ubuntu)

Other Tools: MS Word, PowerPoint, Excel, Photoshop, Research Tools