

Ivan Christopher D. Vargas

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Education

Universidad de Manila

City of Manila, Philippines

- Bachelor of Science in Computer Engineering 2021 - 2025
- Senior High School - General Academic Strand 2019 - 2021

Technical Skills

- **Programming Languages:** Typescript, Javascript
- **Frontend Development:** Next.js, React.js, Tailwind, Material UI (MUI), Bootstrap, Axios, Zod, Zustand
- **Backend Development:** Node.js, Express.js, Joi, RESTful API
- **Mobile:** React Native, Expo
- **Databases:** PostgreSQL, MySQL, Neon Postgres
- **Testing:** Jasmine
- **Version Control:** Git, Github
- **Tools:** Figma, VS Code, Postman, Docker.

Work Experience

Web Developer Intern

Linoflap Technology Philippines Inc.

January 2025 - May 2025

- Developed a web-based operations system for a government agency using Next.js, React.js, and Typescript, Zod, Zustand, Axios, Postman in an Agile team environment.
- Translated Figma designs into functional UI components with MUI, establishing core application architecture.
- Integrated RESTful APIs using Axios to facilitate seamless data interaction between frontend and backend.
- Improved component performance through effective state management using Zustand.
- Collaborated with developers and designers to troubleshoot bugs and enhance UI/UX.
- Validated backend endpoints through Postman to ensure data integrity and system reliability.

Projects

[Personal Portfolio Website](#)

- Designed and developed a responsive portfolio using Next.js, React.js, TypeScript, and Tailwind CSS to showcase projects, technical skills, and GitHub activity.
- Implemented clean UI components including a Hero Section, Experience, Tech Stack, Projects Gallery, and Contact Form.
- Integrated Web3Forms to handle form submissions securely and send messages directly to my email.
- Utilized Axios for form submission requests and Zod for client-side validation of input data.
- Embedded react-github-calendar to dynamically display GitHub contributions.
- Emphasized modern development practices including component-based architecture, reusable code, semantic HTML, and responsive design.

- Maintained codebase with Git and deployed via Vercel.

Government Operations Management System (Confidential Project)

- Co-developed a secure, web-based Operations Management Platform for a Philippine government agency using Next.js, TypeScript, and Microsoft SQL Server.
- Translated complex Figma UI designs into responsive and accessible Material UI (MUI) components styled with Tailwind CSS.
- Integrated RESTful APIs using Axios and handled API schema validation with Zod.
- Utilized Zustand for efficient global state management across components.
- Built dynamic dashboards with interactive charts (bar/line graphs) that visualized backend analytics based on user input and filters.
- Collaborated in an Agile development team alongside backend and UI/UX designers.
- Conducted API testing using Postman to validate request/response data and troubleshoot issues.
- Backend stack included Express.js, Prisma ORM, and Microsoft SQL Server.

Kandyland Sales and Inventory System

- Developed a complete web-based inventory solution for Kandyland (Philippine small business) enabling end-to-end Sales and Inventory tracking.
- Engineered product management system with CRUD operations, price/stock tracking, and automated low-stock alerts.
- Created a reporting dashboard generating sales and inventory analytics with visual data representation.
- Implemented role-based access control with admin/employee permissions and secure authentication.
- Designed MySQL database schema for products, users, and transactions using normalization best practices.
- Developed dynamic UI components with PHP-rendered HTML tables, modals, and interactive forms.

Christ the Living Stone Fellowship (CLSF) Church Website

- Developed a dynamic church website using React to enhance user engagement and streamline donations.
- Implemented a chatbot to provide automated information about CLSF's services and events.
- Designed an image carousel and embedded video section to showcase church activities and sermons.
- Built a donation system, integrating EmailJS to automate:
 - User confirmation emails (receipts).
 - Admin notifications for new donations.

Amazon Clone Project

- Built a full-featured Amazon UI clone from scratch using vanilla JavaScript (ES6+), covering 11.5 hours of dedicated project implementation.
- Implemented core e-commerce functionality:
 - Dynamic shopping cart with real-time price updates using DOM manipulation.
 - OOP architecture with classes and inheritance for product/cart management.
 - Local storage persistence for cart data across sessions.
- Integrated external libraries (Day.js for delivery dates) and implemented Jasmine unit tests.
- Applied async/await and fetch API for mock backend interactions.
- Utilized Git/GitHub for version control.

User Management RESTful API

- Built a RESTful API using Node.js, Express.js, and PostgreSQL, containerized with Docker for streamlined local development.
- Designed and implemented full CRUD operations for a user management system, covering user creation, data retrieval, updating, and deletion.
- Utilized PostgreSQL for persistent data storage and tested queries using tools like Postman and pgAdmin4.
- Developed for self-learning purposes to deepen understanding of backend fundamentals, API routing, request/response handling, and database connectivity.

Certifications

[Responsive Web Design](#) - freeCodeCamp | 2024

[Prompt Engineering](#) - IBM | 2024

[JavaScript Algorithms and Data Structures](#) - freeCodeCamp | 2025