Prado, Alejandro A.

⌖ Pasig, Metro Manila, Philippines ✉ alejandroprado885@gmail.com ☐ 09939270565

PROJECTS

Intern Team Lead / Full-Stack Developer – Queueing System for RTU MIS

March 2024 – May 2025

- Led a team of 8 in building a real-time Queueing System deployed at RTU's MIS Office, currently used by hundreds of students and staff.
- Achieved a 400% increase in transaction processing speed and reduced front-end development time by 200% using modular ShadCN UI components.
- Utilized Zod, React Hook Form, and Zustand in engineering a dynamic form supporting 586,000+ field combinations.
- Integrated Prisma ORM with Socket.IO to enable real-time queue updates across all client devices.
- Utilized Framer Motion to enhance UI/UX through smooth, responsive animations and interaction feedback.
- Continuously iterated on the form UI/UX by conducting field observations, identifying user pain points, and delivering usability improvements for better comprehension and efficiency.
- Built with a modern tech stack: Next.js, Prisma, Tailwind CSS, Socket.IO, React Hook Form, Zod, Zustand, Framer Motion.

Lead Developer / Full-Stack Developer – Undergraduate Thesis at Pamantasan ng Lungsod ng Pasig

August 2024 - December 2024

- Lead a team of 3 to develop a web application that analyzes procrastination patterns in CCS students.
- Developed a monitoring tool with Next.js and a Flask backend for machine learning model integration.
- Implemented Firebase authentication with role-based access for personalized user experiences.
- Developed interactive dashboards leveraging React and Tailwind CSS to visualize real-time procrastination trends with a 70% user engagement rate.

Lead Developer / Full-Stack Developer – CPU Scheduling Website (School Project)

June 2024 - July 2024

- Led a team of 5 in developing a tool to simulate CPU scheduling algorithms using Vue.js and OOP principles.
- Optimized performance and user experience, providing a reliable educational resource for CPU scheduling.
- Designed interactive visualizations for algorithms like Round Robin and FCFS, enabling real-time process demonstrations.
- Refactored the project to TypeScript for enhanced type safety and code quality.

Full-Stack Developer – Petshop Website (School Project)

May 2024 - July 2024

- Integrated Laravel factories for efficient inventory management and authentication for secure user access.
- Created a user dashboard for order tracking and profile management, enhancing customer experience.
- Improved search functionality with Eloquent ORM, achieving a 30% faster response time.

Lead Developer / Coordinator - Component Library (School Project)

group-gcc-vue-component-library.vercel.app • April 2024 - June 2024

- Led a team of 10 in designing a reusable component library, promoting collaborative coding practices.
- Streamlined UI consistency across projects, reducing development time by 30% through reusable components.
- Established standardized coding practices for maintainability and integrated comprehensive documentation, enhancing usability.
- Utilized version control for managing updates and ensuring backward compatibility.

EDUCATION

Bachelor of Science in Computer Science

Pamantasan ng Lungsod ng Pasig • 12-B Alcalde Jose, Pasig, 1600 Metro Manila • 2021 – Present

- **Graduated cum laude**
- **Best in Thesis —** *"Predicting Academic Performance Based on Procrastination Factors: A Data Visualization Using Linear Regression Model"*

SKILLS

- **Programming:** JavaScript, TypeScript, Python, SQL, Java, PHP, HTML/CSS,
- **Web Development:** Vercel, Next.js, Vue.js, React, Laravel, Flask, Tailwind CSS, Redux, Zustand, shadcn, Framer Motion, gsap
- **Mobile Development:** Expo, React Native
- **Backend & APIs:** Firebase, Supabase, RESTful APIs, Prisma ORM, Socket.io,
- **Machine Learning:** Linear Regression
- **UI/UX Design:** User research, wireframing, and designing user-friendly interfaces
- **Version Control:** Git, Github
- **Project Management:** Team leadership, collaboration tools, code quality assurance
- **Soft Skills:** Problem-solving, communication, adaptability