Daniel Edison D. Mendegorin

Full-Stack Software Engineer | Registered Electrical Engineer

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Professional Experiences and Trainings

JLabs – Software Engineer *(August 2023 – Present)*
- Develop end-to-end solutions for both mobile and web applications, encompassing front-end and back-end development.
- Write high-quality, maintainable code while following coding standards and best practices. Conduct thorough testing and debugging to ensure the reliability and performance of applications.
- Collaborate effectively with cross-functional teams, including designers and product managers. Participate in Agile or Scrum methodologies to deliver projects efficiently and iterate on features based on user feedback and market needs.

Project Highlights:

- Feb 2024: **Grand Tracker**
    - **Project Overview:** Spearheaded the development of "Grand Tracker," an innovative mobile application designed to enhance communication and bonding among family members across generations in the US.
    - **Technical Leadership:** Served as the sole developer, demonstrating comprehensive expertise in both front-end and back-end development. Utilized a modern tech stack comprising TypeScript, React Native, and Expo for the front end, alongside PHP and Laravel for the back end.
    - **Authentication System:** Implemented a robust authentication module, encompassing user registration, login functionalities, and social logins via third-party services such as Facebook and Google. This critical component ensured secure and convenient user access.
    - **Password Recovery:** Developed an advanced "Forgot Password" module, leveraging SMTP mailing services and Twilio SMS service for secure verification code distribution. This feature allows users to effortlessly reset their passwords, enhancing user trust and app security.
    - **Contacts and Invitations:** Engineered a sophisticated contacts feature using expo-contacts, enabling the app to access and import user contacts from their device. Implemented functionality to send personalized app invitations, significantly increasing user engagement and app adoption.

- Jan 2024: **Pieza app for Pieza Automotive PH**
    - **Project Overview:** Played a pivotal role in the development and enhancement of "Pieza," a cutting-edge digital marketplace designed to revolutionize the automotive retail industry in the Philippines. This all-in-one platform facilitates unparalleled access to automotive retail businesses, fostering their growth by expanding their reach to a nationwide audience.
    - **Team Collaboration and Support:** Actively collaborated with a team of developers, providing crucial support in maintaining and improving the app. Demonstrated proficiency in React Native for front-end development, and PHP and Laravel for back-end services, contributing to the app's overall stability and performance.
    - **Guest User Experience:** Innovated a seamless guest workflow, enabling unregistered users to navigate and interact with the app effortlessly. This strategic enhancement significantly boosted user counts by reducing entry barriers, thereby promoting greater engagement and interaction within the platform.
    - **Error Monitoring and Resolution:** Integrated Sentry for real-time error tracking in live deployments, a key initiative that enhanced the app's reliability. This tool provided invaluable insights into app performance issues and user-facing errors.

- Aug 2023: **Mommyki: The Super Pet App**
    - **Project Overview:** Contributed to the development of "Mommyki," an innovative mobile application dedicated to enriching the lives of pet owners. This comprehensive platform offers a suite of features including pet profile management, a marketplace for pet products, and tools for monitoring pet health and activities.
    - **Full-Stack Development:** One of the two primary developers of the Mommyki app utilizing React Native, Expo, and NestJS for the mobile app, coupled with TypeScript for added efficiency and maintainability. Also spearheaded the creation of a web admin portal using React and Material UI, enhancing the administrative capabilities for app management.
    - **Admin Portal Dashboard:** Engineered a dynamic dashboard for the web admin portal, enabling real-time monitoring of key performance metrics such as user registrations, pet profiles ("Pawfiles"), vet and merchant sign-ups. This dashboard serves as a crucial tool for strategic decision-making and app optimization.
    - **Pet Pawfile Feature:** Innovated the "Pet Pawfile" feature, a comprehensive digital profile for pets that includes a custom gallery, medical records, and a pet family tree. Employed Formik and Yup for robust form validations, making it a valuable resource for pet owners to chronicle their pet's journey and health history.
    - **Push Notifications System:** Implemented a sophisticated push notifications system using Expo Notifications and Firebase Messaging. This feature sends timely reminders for feeding, grooming, medication schedules, and feeding replenishment, significantly enhancing pet care and owner convenience.
    - **Events Management:** Created an intuitive events screen within the app, allowing users to discover, register, and participate in pet-related events. This feature fosters community engagement and provides valuable opportunities for socializing and education among pet owners.
    - **Optimization and User Engagement:** Refined the products and merchants browsing experience by implementing pagination, resulting in faster loading times and a seamless, user-friendly interface. This optimization ensures users enjoy browsing with minimal wait times, enhancing overall satisfaction.
    - **Guest User Access:** Designed a guest user workflow to allow unregistered users to explore the app, a strategic move that increased user counts and encouraged more interaction with the platform, thereby reducing entry barriers and fostering a more inclusive user community.

Uplift Code Camp – Graduate *(November 2022 – July 2023)*
- Awarded a full scholarship by the Aboitiz Foundation, recognizing my potential in the field of technology.
- Completed an intensive program in full-stack web development, specializing in the MERN Stack—a dynamic combination of MongoDB, Express, React, and Node.js for comprehensive web and app development.
- Achieved academic excellence, graduating with a remarkable final grade of 99%, demonstrating my mastery of the course material and practical application of skills.
- Received endorsements from Uplift, a testament to my technical competencies and potential, leading to opportunities with several leading tech companies.

Project Highlights:

- June 2023: **Aboitiz Scholars Central**
  - **Project Overview:** Spearheaded the development of the Aboitiz Scholars Central app, envisioned as the definitive platform for managing and accessing comprehensive information on Aboitiz scholarships. The app aims to serve as the centralized hub for scholars, facilitating access to critical data and enhancing the scholarship management process.
  - **Dashboard Development:** Engineered an advanced dashboard interface designed to present a wide array of information, including the total number of scholars supported, detailed scholarship statuses, graduate numbers and their employment situations, academic achievements, and demographic insights such as age, gender, and geographic distribution.
  - **Geographical Data Visualization and Analysis:** Innovated a comprehensive data visualization suite for the Aboitiz Foundation's Scholars Central app, featuring an integrated choropleth map to depict the geographical distribution of scholars and sophisticated charting for age, gender demographics, scholarship statuses, and more. This dual approach not only showcases the foundation's extensive reach but also provides stakeholders with intuitive tools for effective data interpretation and decision-making.
- Feb 2023: **RecipeEZ**
  - **Project Overview:** Sole developer of RecipeEZ (Recipe Made Easy), a comprehensive digital cookbook designed to transform the cooking experience. This app caters to culinary enthusiasts of all skill levels, offering a vast selection of recipes across various cuisines through a user-friendly interface equipped with powerful functionalities.
  - **Development and Features:** Developed as a full-stack web application utilizing the MERN (MongoDB, Express, React, Node.js) stack, incorporating robust user account management. This enables users to not only access a wide array of public recipes but also to curate a personal collection tailored to their preferences.
  - **Enhanced User Experience:** Integrated advanced search capabilities, allowing users to effortlessly locate recipes based on the main ingredient or desired cuisine. The app also features functionality for users to save their favorite recipes, manage cooking timers within the app, and share their beloved recipes with friends and family, further enriching the cooking and sharing experience.

Essential Skills

- **Full Stack Development:** Expertise in MERN stack (MongoDB, Express.js, React.js, Node.js) for web applications, PHP and Laravel for robust server-side solutions.
- **Mobile Development:** Skilled in creating mobile apps with React Native and Expo, ensuring cross-platform compatibility.
- **Front-End Proficiency:** Adept in HTML, CSS, JavaScript, and TypeScript, with experience using Bootstrap, Tailwind CSS, Material UI, Native base, and React Native Elements for engaging designs.
- **APIs and Server-Side:** Competent in building and integrating RESTful APIs with a solid understanding of server-side development using NodeJS, ExpressJS, NestJS, and Laravel.
- **Database Mastery:** Proficient in MongoDB and PostgreSQL using pgAdmin, with a strong foundation of database management systems.
- **Version Control:** Proficient with Git for efficient version control.
- **Responsive Design:** Committed to responsive design principles for optimal user experience across devices.
- **Testing and Debugging:** Efficient in code testing, debugging, and maintenance for high-quality software delivery.
- **Soft Skills:** Demonstrated leadership and teamwork abilities, with excellent communication skills for clear technical exchanges.
- **Analytical Thinking:** Utilizes analytical and critical thinking for problem-solving and decision-making.
- **Adaptability and Commitment:** Flexible and dependable, with a passion for continuous learning and staying updated on industry trends.

Educational Background

University of the Philippines Los Baños, *Class of 2021*
- **Bachelor of Science in Electrical Engineering**
  - Honor Roll 2nd Semester A.Y. 2017-2018
  - Published thesis titled: "Design and simulation of image analysis-based particle sizer using laser diffraction"
  - Member, UPLB Society of Electrical Engineering Students

Project References
- **Mommyki:** https://play.google.com/store/apps/details?id=com.mobile.petmalu&pcampaignid=web_share
- **Pieza:** https://play.google.com/store/apps/details?id=com.pieza&hl=en_US
- **Carnielval:** https://avarice03.github.io/carnielval-game/
- **RecipeEZ:** https://recipeez.onrender.com/
- **Aboitiz Scholar Central:** https://aboitiz-scholars-central.onrender.com/

Web Portfolio: https://nielportfolio.netlify.app/