

DYNE CHRISTELLE H. SOMBERO

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EDUCATION

Notre Dame of Marbel University, Philippines

Bachelor's of Science in Computer Science

Koronadal, Ph.

Sept. 2022- May 2025

- Award:** Best Student Research in our Research Forum 2025 (Data Science and Algorithm Category). Thesis on "Improving Prediction of Infectious Disease Outbreaks using Attention-based Long Short-term Memory (LSTM) Model with Honey Badger Optimization for Hyperparameter Tuning"
- Related Coursework:** Computing in Python, Object-Oriented Programming, Statistics and Applications, Discrete Mathematics, Data Science and Algorithm

WORK EXPERIENCE

Freelance Full Stack Developer

Self-employed / Remote

Gensan, Ph

May 2021-Present

- Developed and deployed full-stack web apps using React (frontend) and Express.js API (backend) with MongoDB.
- Delivered tailored solutions for 3+ clients, increasing performance and usability by 30%.
- Built secure RESTful APIs with Express.js, handling 100+ daily user requests with JWT authentication.
- Integrated Cloudinary for image upload, optimization, and storage, enhancing media performance by 40%.
- Deployed apps to Vercel and Render with 99.9% uptime, managing source control with 100+ Git commits.

Provincial Government of South Cotabato - Information Technology Division

Full-Stack Developer OJT

Koronadal, Ph

May 2024- July 2024

- Developed a full-stack data banking system using ASP.NET (C#), improving data retrieval speed by 30%.
- Designed and optimized SQL queries, reducing report generation time by 40%
- Collaborated in a 5-person Agile team, contributing to 90% of front-end UI components and backend integration.
- Used GitHub Desktop to manage 15+ pull requests, resolving code conflicts and ensuring smooth version control.

PROJECTS

Real Estate Website UI

Next.js | Typescript | Tailwind CSS

- Designed and implemented a fully responsive front-end interface compatible with mobile, tablet, and desktop devices, reducing layout breakpoints by 80% compared to initial wireframes.
- Built and styled 20+ reusable components (property cards, feature badges, blog previews, testimonials) with TailwindCSS, streamlining development and ensuring design consistency.
- Optimized accessibility and SEO readiness, achieving 97%+ Lighthouse scores and enhancing user experience with structured property categories, feature highlights, and testimonials for clearer navigation.

PEMO (Provincial Environment and Management Office) Data Banking

ASP.Net | C# | Microsoft SQL Server | Azure

- Migrated a legacy environmental website into a modern, searchable SQL-based web application.
- Enabled department staff to access data 70% faster, improving report creation and policy decision-making.
- Implemented CRUD features with zero major bugs reported during testing phase.

E-commerce

MongoDB | Express JS | React.js | Node.js

- Engineered a full-stack e-commerce system supporting real-time checkout and handling 100+ products.
- Integrated REST APIs, MongoDB, and frontend optimizations to reduce load time by 60%.
- Designed user authentication system with JWT and secure password hashing, protecting user data for over 100 test user.

Digital Planner

Figma

- Designed a planner app prototype tested by 10+ users, with a usability satisfaction rating of 92%.
- Reduced navigation time by 40% using smart UI/UX layout principles like baseline mockups.
- Incorporated 4 core features (calendar, task tracking, reminders, personalization) based on user needs.

Prediction Model

Python | Google Colab | KNIME | VisualCrossing | GoogleEarthEngine

- Developed an LSTM-based AI model in Python (TensorFlow/Keras) with 85% accuracy for dengue outbreak prediction using historical health and climate data.
- Applied Honey Badger Optimization (MATLAB) to tune hyperparameters, reducing model training time by 25%, and processed 12,000+ data points using KNIME.
- Utilized GitHub Copilot for efficient code generation and Google Colab for scalable cloud-based model training and testing.

SEMINARS

Philippine Society of Information Technology Students Regional Convention

Gensan, Ph.

April 28-29 2023

- Represented my school and collaborated with fellow IT students from different regions, fostering professional connections and sharing best practices.

Campus DevCon (Developers' Connect) Davao

Gensan, Ph.

May 12,2023

- Gained insights into cloud computing and AI tools through keynote sessions, workshops, and interactives led by industry experts.

SKILLS

Languages: C#, Python, JavaScript, TypeScript

Web Technologies & Tools: React.js, Next.js, Node.js, ASP.NET, HTML5, CSS3, Tailwind CSS, Express.js

Databases & Cloud Platforms: Microsoft SQL Server, MongoDB, Azure, AWS, Vercel

AI, Data & Analytics Tools: KNIME, Google Colab, Google Earth Engine, Github Copilot, LLMs, ML tools

CI/CD & Version Control: Git, GitHub, GitHub Desktop