JOHN NATHANIEL MARQUEZ

Web Developer | Cursor AI

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Skills

Frontend Development ● ● ○ ○ ○ ○
- React 18/19, Next.js 14+
- TypeScript 5, JavaScript (ES6+)
- TailwindCSS
- Framer Motion, GSAP
- HTML, CSS

State Management & Tools ● ○ ○ ○ ○
- Zustand (lightweight state management)
- React Query

Backend & Database ● ○ ○ ○ ○
- Prisma ORM
- Supabase
- RESTful APIs

DevOps ● ● ○ ○ ○
- Vercel (deployment)
- pnpm (package management)

Projects

2025/02 – 2025/04 **Minrights.ai** ⤢
Frontend Developer | February 2025
The "MinRights NextJS Application" is a modern web application built with Next.js, Mantine UI, TypeScript, and Supabase, designed for interactive geospatial data visualization and analysis, likely related to mineral rights or land management. It features sophisticated mapping capabilities using MapLibre GL and React Map GL, integrated with various charting libraries like Mantine Charts and ECharts to present complex data effectively. While the previous authentication system has been removed, the application focuses on providing a responsive, user-friendly interface with dark/light themes, utilizing Zustand for state management and aiming to support data-driven decision-making through its powerful visualization tools.

2025/01 – 2025/01 **Cursor Rules** ⤢
Cursor AI
The "UltraContextAI" project is an AI context rules system designed to manage AI interactions through memory management, track lessons learned, and operate in dual modes (Plan/Agent). It aims to ensure consistent, high-quality development with detailed project documentation and knowledge retention.
Outcome:
• A system for managing AI interactions that maintains project context and decisions.
• A structured approach to capturing solutions and best practices.
• A framework for tracking implementation progress and task dependencies.
• A dual-mode operation for planning and executing tasks based on confidence levels.

2025/01 – 2025/01 **MCP server** ⤢
Memories w/ Lessons MCP server
The "memories-with-lessons-mcp-server" project is a basic implementation of persistent memory using a local knowledge graph. It allows Claude (or another AI) to remember information about users across chats and learn from past errors through a lesson system.
Key outcomes and features:

- **Persistent Memory:** Stores entities, relations, and observations in a knowledge graph for long-term recall.
- **Lesson System:** Captures knowledge about errors and their solutions, tracking success rates and providing recommendations.
- **MCP Server:** Designed to integrate with Model Context Protocol (MCP) clients like Cursor and Claude Desktop.
- **File Management:** Stores entities/relations and lessons in separate JSON files, splitting them to maintain performance.
- **Tools for Knowledge Graph Manipulation:** Includes functions for creating, reading, updating, and deleting entities, relations, and observations.
- **Tools for Lesson Management:** Manages lessons with tools for creating, finding similar errors, updating success, and getting recommendations.
- **Integration:** Instructions are provided for integrating the memory server with Cursor MCP client and Claude Desktop.

Excel Glass Inc. Website ⧉
Front-End Developer | January 2024
- Developed a modern corporate website using Next.js 14 and TypeScript
- Implemented responsive design with Tailwind CSS and Headless UI
- Integrated custom animations using Framer Motion
- Optimized for SEO and performance using Next.js features

Wedding Memories Platform ⧉
Full Stack Developer | March 2024
- Built a comprehensive wedding photography platform with Next.js 13.5
- Implemented photo gallery with lightbox and event timeline features
- Integrated RSVP system with type-safe form validation
- Optimized image delivery using Sharp and WebP format

Edible Artistry ⧉
Frontend Developer | February 2024
- Created an interactive food menu website using Next.js 15
- Implemented category filtering and responsive grid layouts
- Utilized modern React features with RC 19
- Integrated advanced ESLint configuration for code quality

Weather API Integration ⧉
Backend Developer | December 2023
- Developed a weather application using Flask 3.0 and Python
- Implemented real-time weather data fetching and location-based information
- Created responsive weather cards and search functionality
- Managed environment variables and error handling

Education

2022 – 2024/12 Cainta, Philippines	**Bachelor of Science in Information Technology** *ICCT Cainta Colleges*