JOHN NATHANIEL MARQUEZ

Full Stack | Automation | Scraping | Chat-Bot

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Skills

Full Stack ● ● ● ○ ○
Next.js 13-15 | React 18-19 | TypeScript 5 | Node.js

Back-End
FastAPI | Flask | Python | Node.js | Express (implied) | Uvicorn | Pydantic

Cloud & Infrastructure ● ● ○ ○ ○
AWS | Vercel | Heroku | AWS App Runner | AWS Lambda | AWS S3 | Docker

Specialized Technologies ● ● ● ○ ○
`MCP Protocol | Electron | OpenAI SDK | Stripe | EmailJS | Sentry | OBS Studio | CapCut | Canva`

Front-End ● ● ● ● ○
React | Next.js | Framer Motion | Tailwind CSS | Shadcn UI | Radix UI | Mantine v7 | Chart.js | Recharts | ECharts | MapLibre GL | React Map GL | Zustand | React Query | GSAP

Databases & Data ● ● ● ○ ○
PostgreSQL | Supabase | AWS RDS | PostGIS | Prisma | SQLAlchemy | pandas | NumPy

Development Tools ● ● ● ○ ○
TypeScript | ESLint | PostCSS | Poetry | pnpm | Webpack | Turbopack | SWC | Git | GitHub Actions

Projects

2025/02 – Present — **Mineral Rights.ai** ⧉
Full Stack | Python | Nextjs
A full-stack web application built with Next.js and Mantine v7. As a collaborative project, I focus primarily on frontend development and API integration while also contributing to Python backend tasks when needed. The application features a modern responsive interface with comprehensive data management capabilities.

2025 – 2025 — **T1NKER PC Rental** ⧉
Electron | JS | Nextjs 15
A secure, automated, and user-friendly time-based PC rental system for internet cafes and gaming lounges. Features a web-based admin dashboard, real-time session management, robust client kiosk app, and comprehensive transaction and activity logging. Built for operational efficiency, security, and a seamless user experience.

2024 – 2025 — **Wedding Memories Platform** ⧉
Next.js 13.5 | React 19 | TypeScript 5 | Prisma 6
A beautiful wedding memories website with photo galleries and event information.

2025 – 2025 — **KDA - Ordering System** ⧉
Nextjs | Supabase | TypeScript
A comprehensive full-stack restaurant ordering system with customer-facing menus, kiosk mode, real-time order tracking, and admin dashboard. Features three interfaces: customer menu, kiosk ordering, and admin portal for managing products, orders, and revenue analytics with receipt printing capabilities.

| 2025 – 2025 | **Mineral Rights Chat-Bot** |
| | *Python | OpenAI | BeautifulSoup* |

A sophisticated Python package providing AI-powered conversational interfaces for oil & gas data analysis. Built for the MinRights platform, it implements a two-tier bot architecture (Basic and Premium) with comprehensive database integration, web search capabilities, and advanced analytics features.

| 2025 – 2025 | **Mineral Rights Regulatory Scraping** |
| | *ScrapingBee | BeautifulSoup4 | Selenium* |

A sophisticated multi-state regulatory data extraction and management system specifically designed for oil & gas spacing orders and operator information. The platform integrates directly with the MinRights PostgreSQL database to provide real-time regulatory data availability across multiple states with ultra-fast database operations achieving 7,799+ records/sec.

| 2025 – 2025 | **MCP Servers** ⬀ |
| | *| AWS PostgreSQL MCP Server | Supabase PostgreSQL PC Rental MCP Server | MinRights Regulatory Platform | MinRights Pipeline | Memory MCP Server |* |

Multi-state oil & gas regulatory data extraction with 7,799+ records/sec PostgreSQL performance | Oil & gas investment analysis system processing 23,782 wells with nightly updates | Secure Supabase PostgreSQL MCP server for PC rental management with safety controls | Production-ready AWS RDS MCP server for oil & gas data with geospatial operations | AI memory management server with knowledge graphs and lesson learning system