Nathan Cruz Martinez

nathancruzmartinez@gmail.com | linkedin.com/in/nathan-cruz-martinez | github.com/naokimon

Education

MediaCollege Amsterdam Amsterdam, Netherlands
Software Developer *2025 – 2028*

- Advanced one academic year after demonstrating software development proficiency significantly above the standard level for my cohort.

Projects

PokeFastAPI | *Python, FastAPI, SQLite, aiosqlite*

- Built a RESTful API using **FastAPI** and asynchronous SQLite access for querying and serving structured Pokémon data.
- Implemented paginated and sortable API endpoints with input validation, HTTP error handling, and **rate limiting**.
- Structured the application into modular application, data, script, and test components with dedicated development tooling.

OkiSys | *JavaScript, Node.js, React, Ink, npm*

- Built a terminal-based system monitoring dashboard displaying live **CPU, memory, GPU, storage, and network metrics**.
- Developed modular terminal UI components for system information, performance monitoring, networking, and interactive commands.
- Packaged the application as an **npm CLI tool** with build tooling and global installation support.

NaokiRPYG | *Python, Object-Oriented Programming*

- Developed a modular terminal-based RPG using **object-oriented design** to model players, enemies, items, weapons, skills, and world systems.
- Implemented turn-based combat with target selection, skills, mana costs, buffs/debuffs, guarding, experience, loot, and level progression.
- Organized game functionality into modular packages for battle mechanics, entities, world generation, game data, and item systems.

SolarScope Dashboard | *PHP, JavaScript, HTML/CSS, Google Charts*

- Collaborated on a modular web dashboard for displaying environmental, energy, weather, and solar-panel data.
- Developed reusable PHP and JavaScript components for dashboard widgets and data visualizations.

Technical Skills

Languages: Python, JavaScript, PHP, HTML/CSS, SQL
Frameworks & Libraries: FastAPI, Node.js, React, Ink
Tools: Git, GitHub, npm, SQLite, Uvicorn
Concepts: REST APIs, Object-Oriented Programming, CLI Development, Asynchronous Programming