



Miro Mariapori

Junior Full-stack Software Developer | React, Next.js & Node.js

SUMMARY

Junior full-stack developer with strong React, Next.js, Node.js, GraphQL, and MongoDB experience. My strongest proof of work is GameRAT: a 15-month healthcare platform where I built the web app, backend, authentication, 3D exercise editor, and Quest 3 movement-data pipeline. I am looking for a junior full-stack or backend-leaning role where I can build reliable web products for real users.

CONTACT INFORMATION

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CORE STRENGTHS

- React, Next.js, TypeScript, and complex web interfaces
- Node.js backends, GraphQL/REST APIs, and authentication
- MongoDB, PostgreSQL, server infrastructure, and deployment
- Three.js, WebSockets, and data-processing pipelines
- Independent ownership from planning to production

WORK EXPERIENCE

Software Developer

Helsinki XR Center • 1/2024 - 3/2025

- Built the React web platform and Node.js/GraphQL backend for GameRAT, a 15-month healthcare project for gamified physiotherapy
- Implemented JWT authentication, role-based access control, MongoDB data models, and sensitive-data handling
- Built the physiotherapist interface for patient management, exercise assignment, tracking, messaging, and pain reporting
- Created a Three.js 3D exercise editor and Quest 3 movement-data pipeline for browser-playable analysis data
- Implemented Unity APIs, a .NET data-collection tool for neural-network training, backend deployment, and a self-hosted MongoDB instance

Software Developer

Freelance • 8/2022 - Present

- Completed six freelance projects: websites, WordPress solutions, automations, integrations, and custom software
- Clarify customer needs, scope the work, and deliver projects independently
- Built a Python Telegram bot for CSV data extraction and WordPress/PHP solutions for client needs

TECHNOLOGIES

Programming languages: TypeScript, JavaScript, Python, C#, SQL

Frontend: Next.js, React, React Native, HTML5, CSS3, Tailwind CSS

Backend and APIs: Node.js, Express.js, GraphQL, REST, WebSockets, OAuth2, JWT, Sessions, Role-based access control

Data and infrastructure: MongoDB, PostgreSQL, Docker, Azure, Fly.io, Vercel, Nginx, PM2, GitHub Actions, Git

Automation and data: Python-based data processing, Telegram bots, OpenAI API, Custom neural-network implementation, CSV/data extraction

Other: Three.js, .NET, Unity API integration, WordPress, PHP, Rust (learning)

PROJECTS

Gamified Joint Rehabilitation, Analysis and Training (GameRAT)

- Built GameRAT's web and backend system for gamified physiotherapy exercise delivery and analysis
- Implemented React/Three.js interfaces, a GraphQL backend, JWT authentication, MongoDB data models, and role-based access control
- Built the Quest 3 movement-data pipeline, Unity APIs, and a data-collection backend for neural-network training

Route Management System for an Autonomous Tracked Articulated Vehicle (thesis)

- Built a React/Leaflet and Node.js/WebSocket thesis system for route creation, command routing, and monitoring of an autonomous tracked vehicle
- Implemented a vehicle simulator, vehicle-specific command routing, and a lost-connection stop behavior as a foundation for later integration

TKIO-Finder

- Built a full-stack platform that improves discoverability of Metropolia RDI project positions for students and staff
- Implemented PostgreSQL models, search, filters, Google OAuth2, role-based access, mutual matching, and private-server deployment

EDUCATION

Bachelor of Engineering, Information and Communications Technology

Major: Software Engineering

Metropolia University of Applied Sciences

Graduation: summer 2026 (estimated)

LANGUAGES

- Finnish – native
- English – fluent / professional working proficiency