

Boris Nikolic

Student Software Engineer

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Student Software Engineer with around 3 years of experience building backend systems, distributed architectures, and full-stack applications. Focused on production-grade systems for enterprise clients, with deep expertise in Go, Python, and TypeScript. Experienced in modern development workflows.

Languages

Go · Python · TypeScript · JS · PHP

Backend

Node.js · NestJS · Odoo

Data & Infra

PostgreSQL · RabbitMQ · Docker · CI/CD

Architecture

Distributed Systems · Microservices API Gateway · Clean Architecture

AI Development

Claude (Anthropic) · Context Engineering

AI Workflow

Agent Task Decomposition
Human-in-the-Loop
Review Iterative Refinement
Automated Testing Pipelines

Experience

Contractor · AMT Group · 2025 — Present

Production systems for EU clients (Fairphone) in sustainability and supply chain domains using AI-augmented workflows.

- Built GHG emissions tracking & reporting system for Fairphone supply chain — CO2e calculations via emission factors, optimized complex PostgreSQL queries on large datasets
- Implemented FairMaterials procurement platform — automated workflow logic, material coverage tracking, and period-based reporting over supply chain data
- Designed and building a multi-client CDC engine for replicating Odoo ERP data to OLAP warehouses — per-client cursor isolation, 3-stage acknowledgment protocol, and coordinated garbage collection with PostgreSQL triggers for hard-delete capture
- Designed system architecture for client-facing web shop integrating API Gateway, Odoo backend, and frontend services
- Pioneered multi-agent AI pipelines (Claude + OpenCode) reducing implementation time by 10x; iterative AI review cycles for code quality and architectural coherence

Multi-Client CDC Engine

Python · Odoo · PostgreSQL

Change Data Capture engine replicating Odoo ERP data to downstream OLAP warehouses. Agent + Control Plane architecture with PostgreSQL AFTER DELETE triggers, independent per-client cursors, 3-stage Request-Fetch-ACK fault tolerance, and coordinated garbage collection.

Toy Store

Go · Next.js 14 · PostgreSQL · Redis · Stripe

Full-stack e-commerce platform with dual-token JWT auth, shopping cart, Stripe payments, order management, and admin analytics.
Catalog cached via Redis cache-aside strategy.

Control Management System Platform

Go · Next.js · React · TypeScript · PostgreSQL

Multi-role CMS web application - Authentication
Orders, Revenue Reports, Notification system.

Sales Report System

NestJS · TypeScript · MongoDB · RabbitMQ

Backend analytics with invoice CRUD, scheduled daily report generation, RabbitMQ queue processing, and email notifications in a hybrid microservice architecture.

EDUCATION

Bachelor in Software Engineering · In progress