

ANDREI CALUGAR

FULL-STACK SOFTWARE ENGINEER

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SKILLS

Languages & Frameworks: TypeScript, JavaScript, Python, C#, Node.js, React, Next.js, FastAPI, Flask, .NET

Frontend: React, Next.js, Tailwind CSS, shadcn/ui, Recharts, Redux, Responsive Design, UI/UX

Architecture & Backend: Software Architecture, System Design, Relational Schema Design, REST APIs, Auth (RBAC), plpgsql

AI & LLM: Claude API, OpenAI API, AI-Accelerated Development (Claude Code), Prompt Engineering, Multi-stage AI Pipelines, MCP, TensorFlow, Pandas

Data & Storage: PostgreSQL, Supabase, SQL Schema Design & Migrations, JSON/JSONB, MongoDB, SQLite, Neo4j

Automation & Scraping: n8n, Apify, Webhook-driven pipelines, Background jobs

DevOps & Cloud: Vercel, Azure DevOps, DigitalOcean, Docker, Caddy, CI/CD, Git, GitHub

Testing: Vitest, Cypress, Jest, TDD, Agile / Scrum

EDUCATION

MSc Computer Science & Engineering
DTU – Technical University of Denmark
2019–2021 · Grade 12
Published: IEEE Xplore (GLOBECOM 2022)

BSc Automation & Computer Science
Technical University of Cluj-Napoca
2013–2017

LANGUAGES

- English — Fluent
- Romanian — Native
- French — Basic

PROFILE

Full-Stack Software Engineer with 6+ years of experience who architects and ships production systems end to end, increasingly solo and fast, using AI-accelerated development. Strong across React, TypeScript and Next.js on the frontend and Node.js, Python and C#.NET on the backend, with hands-on Postgres and Supabase data design, relational schema modelling and REST API architecture. Recently built a complete Manufacturing Execution System for a European manufacturer single-handedly in roughly 10 weeks, covering the full relational schema, a production-scheduling engine, an order configurator and a shop-floor app, and took it live in production. Comfortable owning projects from discovery through deployment and iteration, and a daily user of Claude Code and modern AI tooling to move at the speed of a full team while working alone. Equally at home refining polished frontend experiences and designing the backend and data layers underneath them. Open to remote roles, positions in the Copenhagen area, and freelance or contract work.

WORK EXPERIENCE

● Software Architect & Developer — VeloMES (MES Platform)

Velomobile World · Freelance · Remote · Jun 2026 – Present

- Sole architect and developer of a full Manufacturing Execution System for a velomobile factory, spanning order configurator, production planning and shop-floor execution, delivered live in production within roughly 10 weeks of active development.
- Designed a transactional production-explosion engine (Postgres/plpgsql) turning customer orders into dependency-graphed task networks (31 tasks, 28 edges per order), plus a CPM resource-constrained multi-order scheduler with shift-calendar integration and Gantt visualization.
- Reverse-engineered the client's e-commerce configurator with a custom parser to extract a 3,500-row commercial catalog across 10 models, powering an in-platform order configurator with full pricing.
- Built a 7-module master-data suite (parts, BOM, process design, workforce, capacity, options, pricing) with a reusable Excel import/export framework adopted across 12+ screens; implemented role-based auth and audited 40+ API routes.
- Established AI-accelerated engineering practices and trained the client's CEO to extend the platform independently (190+ subsequent commits on the architecture established).

Stack: Next.js · TypeScript · Supabase/Postgres · plpgsql · Vercel

● Founder & Developer — Social Growth

getsocialgrowth.tech · Freelance · Remote · Mar 2026 – Present

- Built and launched an AI-powered SaaS, solo, that reads competitors' best-performing Instagram content and returns ready-to-film content briefs rather than raw analytics.
- Engineered the core cross-account analysis engine, reading many accounts together and surfacing only patterns that repeat across 2+ accounts and clear a real performance threshold.
- Added production guardrails on AI output, including verification that the model's cited example posts actually originate from competitor accounts before results reach the user.
- Architected to run without a heavy backend: Apify (scraping) + self-hosted n8n (orchestration) + Claude + Supabase + a Next.js app. In free beta across multiple niches.

Stack: Next.js · TypeScript · Node.js · Claude API · Apify · n8n · Supabase · Vercel

● Frontend Developer — Openfort

Openfort · Freelance · Remote · Aug 2024 – 2026

- Frontend development on Openfort's embedded-wallet product, non-custodial crypto wallets that developers drop into their apps for email, social and passkey sign-in.
- Refined and maintained React components across the wallet UI and optimized onboarding, sign-in and transaction flows to make embedded-wallet integration smoother for end users.
- Enhanced developer-facing features that make Openfort's wallet SDKs easier to integrate into third-party apps; contributed ongoing improvements and UI polish to a fast-moving Web3 product.

Stack: React · TypeScript · Web3 / embedded wallets

● Front-End Software Developer — Saxo Bank

Saxo Bank · Full-time · Hybrid, Copenhagen · Aug 2021 – Jul 2024

- Led UI optimization for asset-type handling across 500+ files, improving maintainability and delivering one month ahead of schedule.
- Designed and implemented a market-depth chart for Saxo's trading platform, boosting real-time data visualization and user engagement by 20%.
- Revamped three core trading modules for non-tradable instruments, reducing user steps by 30% and improving platform efficiency.

Stack: TypeScript · React · Redux · Node.js · Cypress · Jest · Azure DevOps

● Back-End Software Developer — SimCorp

SimCorp · Full-time · Hybrid, Copenhagen · Mar 2019 – Jul 2021

- Implemented optimized data-processing algorithms in the SimCorp Dimension platform, achieving a 50% reduction in processing times.
- Developed and maintained C#.NET backend features in the Investment Management module, improving reliability of financial data reporting by 25%.

Stack: .NET · C# · Azure DevOps · Agile/Scrum

● Research Assistant — DTU

Technical University of Denmark · Copenhagen · Oct 2020 – May 2021

- Proposed and implemented an optimized hyperparameter-tuning process for ANN-based Intrusion Detection Systems, published at IEEE GLOBECOM 2022.

Stack: Python · TensorFlow · Pandas · Machine Learning