Gert-Jaap Glasbergen

Software Engineer

Digital Currency • High-Performance Systems • Generative AI

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SUMMARY

Software engineer with 25+ years of professional experience — coding since age 5, shipping production software since 14. I build at the intersection of **digital currency**, **high-performance distributed systems**, and **generative AI**: from central-bank digital currency research to payment infrastructure handling millions of transactions per second. Two decades growing from junior engineer to software architect leading international teams, followed by seven years as an independent consultant for clients ranging from startups to major financial institutions and the MIT Digital Currency Initiative.

PROFESSIONAL EXPERIENCE

Independent Consultant & Founder **2018 – Present**

Blocksource / Wadagso *Netherlands*

Founded **Blocksource** (2018) and co-founded **Wadagso** (2020), consultancies specializing in digital currency, distributed systems, and high-performance infrastructure. Selected engagements:

- **Radius Technology Systems** *(Distributed Systems Engineer, 2024–Present)* — Building payment systems that can handle millions of transactions per second for the agentic economy: sub-second finality and near-zero costs through parallel processing beyond traditional blockchain limitations, enabling AI agent-to-agent payments and compute-resource marketplaces.
- **Financial Research Data Platform** *(Wadagso, 2024–Present)* — Building an agent-native data platform that unifies regulatory filings, corporate ownership graphs, and macroeconomic indicators into a single entity-first API, exposed over REST and agent-facing interfaces, making structured financial data directly queryable by AI assistants.
- **CBDC Prototyping for Major Financial Institutions** *(2022–2023)* — Under strict confidentiality, architected smart-contract systems for wholesale financial operations and built sophisticated UIs that made complex distributed-ledger systems accessible to decision-makers exploring tokenization and programmable money.
- **OpenCBDC / Project Hamilton** *(Wadagso, 2020–2021)* — Core contributor over two years to OpenCBDC, the open-source transaction processor and testing framework behind Project Hamilton; built transaction-engine components and the test orchestration that measured throughput at scale. Credited as a contributor in the published whitepaper and the open-source repositories.
- **Navier Inc** *(Contractor, 2020–2021)* — Architected Reactor, a high-performance hashrate proxy; the technology was acquired by DMG Blockchain Solutions.
- **MIT Digital Currency Initiative** *(Contractor, 2018–2019)* — Built the first demonstrable implementation of Discreet Log Contracts (oracle-based smart contracts; demoed at Fidelity Labs) and PoolDetective, a security monitor spanning 32 mining pools across 17 cryptocurrencies.
- **Sagittae** *(Contractor, 2018)* — Built the entire blockchain infrastructure for an Amsterdam startup reimagining insurance through Ethereum-based mutual risk-sharing societies.

Software Architect **2010 – 2018**

Decos *Netherlands*

Responsible for technical architecture and leading international teams.

- Led an engineering team in Pune, India to build the Customer Contact Center Platform from the ground up (C# .NET, Silverlight) through co-creation with five customers — the first Decos project to achieve full team autonomy.
- Built Minute, a meeting-management app, as a four-person internal startup — owning development, sales, marketing, and support end to end.

Software Engineer **2003 – 2010**
Decos *Netherlands*

- Worked as part of a small team on the migration from ASP/Visual Basic to C# .NET, building integrations with dozens of financial systems and web platforms; managed internal IT infrastructure (servers, VoIP, networks).

Junior Software Engineer **1998 – 2003**
Decos *Netherlands*

- Joined at age 14 via a summer job digitizing archives; earned a junior engineering role while still in high school, building utility programs in Visual Basic and ASP.

SELECTED PROJECTS & OPEN SOURCE

- **Verthash** — Co-developed a memory-intensive, ASIC-resistant mining algorithm (1.2 GB static dataset) that replaced Lyra2REv3 in the Vertcoin hard fork (Jan 2021). [PR]
- **Vertcoin One-Click Miner** — Democratized GPU mining via a deceptively simple interface (Go, Wails). [GitHub]
- **Discreet Log Contracts** *(MIT DCI)* — First demonstrable DLC implementation, built in six weeks; demoed at Fidelity Labs. [Demo] [Paper]
- **OpenCBDC** *(Project Hamilton)* — Credited contributor to the transaction processor and test framework for central-bank digital currency research. [GitHub] [Whitepaper]
- **PoolDetective** *(MIT DCI)* — Monitored 32 mining pools across 17 cryptocurrencies to detect network-security anomalies. [GitHub]

EDUCATION & CERTIFICATIONS

BSc, Information Technology — The Hague University *(2003)*
Thesis: workflow management integrated into a document-management system.

Certifications & Training: Advanced Learning Algorithms (Coursera, 2025) • Supervised Machine Learning (Coursera, 2025) • Cryptography I (Stanford / Coursera, 2019) • Advanced Distributed Systems Design (Udi Dahan, 2013) • Matrix Management (Krauthammer, 2007).

TECHNICAL SKILLS

Languages	Rust, Go, C++, TypeScript, C# / .NET, SQL
Digital Currency	Distributed Ledgers, Smart Contracts, Consensus Algorithms, Cryptography, CBDC Architecture
High-Performance	Distributed Systems, Parallel Processing, Network Optimization, Cloud Infrastructure, Scalability
AI & ML	LLM Integration, Prompt Engineering, AI Infrastructure, Semantic Search, Vector Databases
Frameworks	React, Node.js, Docker, Kubernetes, PostgreSQL, Redis
Cloud	AWS, Azure, Google Cloud, DigitalOcean, Scaleway