# Aner Gusic



**Senior Software Engineer with leadership experience**
Linköping · 47 years · MSc in Computer Science and Engineering (LiU)
Swedish and English

## Summary

Aner has built software for more than 20 years. He is a generalist with deep knowledge of most backend work: databases, infrastructure, APIs and cybersecurity. He has worked with large data volumes all the way from collection and processing to application and operations. Over the last year he has worked heavily with agentic development, building agentic loops and tools for AI agents.

During nine years as VP Engineering he led the engineering organization and systems architecture, and has since built new teams and platforms from the ground up. He prefers to work close to the code, and also takes roles as team lead, architect or interim CTO.

## Areas of expertise

### Core expertise

- **Programming** – software development in several languages, from low-level C and C++ on Linux to backend in TypeScript, Python and Java
- **Agentic development** – builds agentic loops and workflows, develops tools for AI agents, and uses agent-driven development in day-to-day work
- **Databases and optimization** – PostgreSQL at scale, very large instances and distributed databases with up to 100 nodes; optimization of data layout, SQL queries and performance. Has also worked a lot with DuckDB and Athena.
- **Infrastructure and operations** – cloud infrastructure on AWS, Kubernetes, containers and virtualization, infrastructure as code and GitOps
- **Linux** – development, operations and troubleshooting in Linux environments throughout his career; has used Linux since 1992
- **Backend and APIs** – public and internal APIs, third-party integrations, authorization and remote control
- **Data at scale** – data collection from millions of devices, data processing pipelines, data platforms and analysis of field data
- **Systems architecture** – distributed systems, transition from monolith to service-oriented architecture and cloud transformation. Has built a data platform with APIs and integrations from the ground up.
- **Cybersecurity and IoT** – secure software design, hardening of Linux servers and reducing attack surface; IoT device security, IAM for devices, factory provisioning, secure onboarding and remote access
- **Video and IPTV** – video observability, video analytics, IPTV solutions and set-top boxes

### Technologies – extensive experience

- **Languages:** Python, TypeScript, C/C++, SQL
- **Databases and data:** PostgreSQL, Athena, DuckDB, S3, Airflow
- **Cloud and infrastructure:** AWS, Terraform, Kubernetes, Docker, Argo CD, GitOps
- **OS:** Linux

### Technologies – professional experience

- **Languages and frameworks:** Java, Spring Boot, Go, C#

### Leadership

- **VP Engineering for nine years** – responsible for development teams and systems engineering, and the link between development, product management and support
- **Recruitment and handover** – recruited more than ten engineers and handed over leadership to leaders he had recruited and coached himself
- **Team startup** – built a new cloud team and took backend and APIs from zero to production
- **Team lead** – design of features, APIs and data flows across multiple system components, with lightweight processes for development and operations
- **Support operations** – mentored a new support engineer and set up KPIs reported to the management team
- **Hands-on leadership** – has consistently combined leadership roles with his own architecture and development work

## Assignments via Agsec (since 2019)

### System Engineer – NIRA Dynamics AB

*2026 – present*

Data collection, data processing and APIs for road conditions and road friction in Europe and the USA. Optimizes very large Postgres instances in terms of data layout and SQL queries, develops data processing pipelines and APIs, and works with cloud infrastructure.

**Technology:** SQL, Java, Spring Boot, Python, Go, PostgreSQL, Athena, S3, Airflow, DuckDB, AWS, Terraform, Kubernetes, Argo CD, GitOps

### System Engineer and Team Lead – Qvantum Sverige

*2024 – 2026*

Backend for connected heat pumps in a team of two. Designed and built a complete IoT device security solution, built a data platform for analysis of field data, and integrated with third-party apps and energy balancing services.

**Technology:** TypeScript, PostgreSQL, DuckDB, IoT security, IAM, API design

### Software Engineer – Qvantum Sverige

*2023 – 2024*

Started up the Qvantum Cloud team. Developed backend for data collection and processing as well as public and internal APIs, and took them to production.

**Technology:** TypeScript, PostgreSQL, DuckDB, API design

### System Engineer Cloud Transformation – Ericsson

*2022 – 2023*

Systems architecture for radio networks, focusing on moving applications to a self-hosted cloud environment with emphasis on resource optimization.

**Technology:** Kubernetes, Argo CD, systems architecture

### Support and Services Manager (acting) – Agama Technologies

*2021 – 2022*

Customer success and advanced troubleshooting of complex distributed systems. Mentor for a new support engineer. Set up KPIs for the support team reported to the management team.

## Employment

### VP Engineering – Agama Technologies

*2012 – 2021*

Overall responsibility for the engineering organization in streaming video analytics and distributed big data systems, with data from millions of devices. Worked largely as systems architect and was the link to product management and support. Led the transition from a monolith on bare metal to a service-oriented architecture for the cloud, and was architect for a platform transformation that enabled deliveries on top of the platform. Recruited more than ten engineers.

**Technology:** Distributed PostgreSQL (up to 100 nodes), big data, video technology, containers, virtualization

### Software Engineer (contractor) – Motorola Mobility

*2011 – 2012*

Software development for embedded Linux systems and video playback.

### Systems Engineer (contractor) – Motorola

*2009 – 2011*

Systems architecture for embedded Linux systems and video playback.

**Technology:** C++, Python, Linux

### Software Engineer (contractor) – Tritech

*2007 – 2009*

Software development in various projects, mainly in telecom.

**Technology:** C++, C#, Python, Linux

**Software Engineer – Motorola Inc. (formerly Kreatel Communications)**
*2005 – 2007*

Software development for IPTV and set-top boxes.

**Technology:** C++, Python, Linux

## Education

**MSc, Computer Science and Engineering** – Linköping University, 1998–2004