

Behrooz Nobakht

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Last Updated: March, 2026

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Summary

Engineer Systems. Build Teams. Craft Code.

I specialize in building high-performance, resilient distributed systems where theoretical depth meets global-scale execution. At Atlassian, I've led the design and implementation of projects targeting architectural evolution of platform services supporting 200k+ global customers, focusing on massive-scale reliability and developer velocity.

I hold a PhD in the area of Concurrency & Actor Models—bridging the gap between CS theory and production-grade reliability.

My expertise centers on Distributed Systems, Observability, and JVM Performance. More recently, I have focused on integrating these foundational systems with AI infrastructure and agentic workflows to drive next-gen platform capabilities.

Experience

Senior Software Engineer

Atlassian, 2017–now

Senior staff member at Jira Cloud Platform with focus on *Performance, Scale, and Observability Engineering* with an AI driven approach.

- Designed and led implementation for an observability-based diagnosis system leveraging graph theory for automated root cause analysis. This system is implemented using agentic AI focusing on regression detection on production environments. (2025)
- Pioneered the design and implementation of an efficient interception framework for the Jira Cloud Monolith. This framework, known as Jira Domain Observability, provides high-level, domain-specific telemetry, complementing distributed tracing for advanced issue diagnosis. (2024 – 2025)
- Served as a principal to build an architecture that helps Atlassian customers anonymize their data before migration to cloud. I worked on critical components of this architecture focusing to unblock the pathway either for internal teams or the customers. (2023 – 2024)
- Architected and led the migration of log-as-metric from Splunk to a high-cardinality storage engine, significantly improving MELT abstractions. This new Long-Term Server Metrics (LTSM) architecture was built using Databricks and AWS S3. (2021 – 2023)
- Developed and scaled a continuous profiling solution using AWS CodeGuru Profiler, initially for Jira and later as a default integration across all Atlassian microservices. (2018 – 2020)
- Spearheaded the re-integration of distributed tracing for Jira, aligning with OpenTracing standards and implementing LightStep. This initiative has since evolved to adopt OpenTelemetry standards. (2017 – 2018)

Lead Software Engineer

HERE, 2016–2017

Senior staff member at CTO Advanced Technologies; reporting to Matthias Ettrich¹:

- Missioned to build a software engineering team in DevOps fashion at HERE Eindhoven
- Lead and supervise projects at technology office spanning across different business groups

Senior Software Engineer

Fredhopper, 2011–2016

- Team Lead at Cloud Services Platform with focus on
 - Orchestrating products/services on the cloud
 - Application-level scaling of services on the cloud
 - Highly-available, resilient and fault-tolerant software on the cloud

Technical Team Lead

HM Solutions, 2009–2014

Co-founder, Software Architect and Project Manager

ASTA, 2004–2009

Java/JEE Trainer and Lecturer

Aptech Learning Services, 2005–2009

- Java Programming Language
- Software Development on Java Enterprise Edition (JEE)
- JEE Technologies: Spring Framework, Hibernate, JSF, and so forth

Education

PhD, Computer ScienceLIACS, *Leiden University*, 2011–2015

Actors at work: Combining object orientation, actor models, and concurrency.

Thesis: <https://github.com/nobeh/thesis> and <https://github.com/CrispOSS/jabs>

MSc cum laude, Computer ScienceLIACS, *Leiden University*, 2009–2011

Thesis: *Deployment of active objects onto multicore*

BSc, Software Engineering*Sharif University of Technology*, 1998–2003

Skills

Distributed Systems · Observability · JVM Performance · Agentic Workflows · Large Language Model Operations (LLMOps) · Microservices · Amazon Web Services · Cloud Computing · High Availability · Concurrent Programming · HTTP · RESTful Services · GraphQL · Spring · Java · Go · Python · Linux · Site Reliability Engineering

¹https://en.wikipedia.org/wiki/Matthias_Ettrich

Certifications

- Certified PCC Coach *ICE + ICF, 2024*
- Certified Scrum Master *Scrum Alliance, 2014*
- Principles of Reactive Programming *Coursera, 2013*

Honors & Awards

- Leiden Excellence Scholarship Award *Leiden University, 2009–2011*