

FARZON NOSIRI

SENIOR SOFTWARE ENGINEER | TECHNICAL LEAD | DISTRIBUTED SYSTEMS & AI

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PROFESSIONAL SUMMARY

Award-winning Senior Software Engineer and Technical Lead with nearly two decades of experience designing scalable distributed systems and delivering high-impact web and mobile platforms. Proven success leading cross-functional teams, modernizing legacy infrastructure for B2B growth, and improving data-intensive system performance by up to 500%. Deep expertise in Go, Node.js, TypeScript, and server-side Swift (Vapor), with hands-on experience in AI/LLM workflows, RAG, API design, cloud-native architecture, and secure systems.

CORE SKILLS

Languages & Frameworks: Go, TypeScript, JavaScript, Node.js, Swift/Vapor, Python, Java, Angular, React, Svelte

AI & Data: LLM workflows, RAG pipelines, semantic search, vector databases, prompt orchestration, chatbot platforms

DevOps & Reliability: Docker, CI/CD, Infrastructure as Code, Linux, monitoring, observability, incident resolution

Architecture: Distributed systems, microservices, API design, serverless architecture, scalability, performance optimization

Databases & Storage: PostgreSQL, MongoDB, Neo4j, ScyllaDB, MySQL, InfluxDB, S3, MinIO

Leadership: Technical leadership, cross-functional delivery, vendor collaboration, Agile, mentorship

PROFESSIONAL EXPERIENCE

Software Engineer | COLORADO SPIRIT HOME CARE, INC.

Jan 2026 - Present

Denver, Colorado

- Design and develop a digital archive platform using Go, Bun, and Svelte, supporting scalable ingestion, indexing, and retrieval of large document and media collections.
- Build an AI-powered retrieval system with an agentic assistant for semantic search, metadata enrichment, and intelligent document navigation.
- Diagnose and resolve issues across backend APIs, databases, AI services, and frontend interfaces.

Technologies: Go, Python, TypeScript, Bun, React, Svelte, Ollama, Whisper, XTTS-v2, Tesseract, RAG, AI/LLM workflows, vector databases, RAG

Independent Researcher

Jan 2024 - Dec 2025

Denver, Colorado

- Authored and published three papers spanning high-load microservice optimization, computational biology, and next-generation sequencing software evaluation.

Team Lead / Senior Software Engineer | NEXUS TECHNOLOGIES, LLC

Sep 2018 - Dec 2023

Khujand, Tajikistan

- Rearchitected the company's core platform using the Distributed Actor model, enabling its transition from a B2C product to a scalable multi-tenant B2B platform.
- Designed an optimized data-synchronization algorithm that increased performance by approximately 500%.
- Developed an MRZ recognition service for passports and identity documents, streamlining customer application workflows.
- Built a centralized file service using Node.js, S3-compatible storage, and MinIO to manage user files across the platform.
- Led and mentored a cross-functional engineering team of approximately 10 developers across backend, frontend, and QA.

Technologies: Swift/Vapor, TypeScript, Node.js, Python, NATS, PostgreSQL, InfluxDB, Neo4j, ScyllaDB, MongoDB, React, Angular, OpenCV, Tesseract, S3/MinIO, LLM, TTS/STT

Bootcamp Lead | JUNIOR CODE

Feb 2023 - Dec 2023

Remote

- Taught Python, algorithms, and data structures from beginner through advanced levels in a six-month software engineering program.
- Helped prepare students for technical interviews; more than 40% secured internships or job offers with recognized technology companies.

Technologies: Python, TypeScript, Java, algorithms, data structures

Software Development Consultant | INDEPENDENT / NEXUS TECHNOLOGIES

Oct 2017 - Sep 2018

Khujand, Tajikistan

- Designed backend architecture for DURUD, a scalable CRM platform serving small and midsize businesses.
- Built a healthcare backend that improved management of appointments, prescriptions, and diagnostic data for a leading cardiology clinic.
- Designed mobile-banking UI/UX and delivered more than 120 production screens using Bank Arvand's existing APIs.
- Developed and launched public websites for IMON International and the Osimi Cultural Center; produced technical documentation that contributed to a full-time offer.

Technologies: Java, PHP, MySQL, REST APIs, WordPress, HTML, CSS, JavaScript, Adobe XD, Photoshop, Illustrator, Documentation writing

PROFESSIONAL EXPERIENCE — CONTINUED

Cybersecurity Analyst & Ethical Hacker | BANK IMON

INTERNATIONAL

Aug 2014 - Oct 2017

Khujand, Tajikistan

- Designed and deployed a nationwide corporate VPN securely connecting more than 180 branches.
- Implemented and maintained a secure corporate email platform with backup and redundancy.
- Conducted digital forensics following a \$20K security incident and supported law enforcement in identifying the perpetrators.

Technologies: Linux, Kali Linux, OpenVPN, IPsec, IKEv2, Cisco, MikroTik, Postfix, Dovecot, MySQL, Bash, digital forensics, network security

Program Manager & Tester | SENSOTRONICA LTD.

Nov 2013 - May 2014

Minsk, Belarus

- Managed multiple Agile projects, coordinated with German partners, and tested sensor and Raspberry Pi/GPIO devices used in solar-panel solutions.

Technologies: Raspberry Pi, GPIO, Node.js, Linux, hardware testing, software testing, sensor systems

Research Assistant | SCILIFELAB & KTH

Dec 2012 - Feb 2013

Stockholm, Sweden

- Evaluated BWA, Bowtie, Agile, Stampy, and Mosaik using 20 GB of genome data, including split-read mapping against a reference genome.

Technologies: Java, C++, NGS tools, FASTA

Research Assistant | KAROLINSKA INSTITUTET

Dec 2012 - Feb 2013

Stockholm, Sweden

- Analyzed DNA microarray gene-expression data for an Epstein-Barr virus research project and identified associated signaling pathways.

Technologies: Java, BioJava, Python, Mosaik, UniProt, FASTA, FunCoup

Software Developer | IT CENTER OF KBTUT

Nov 2007 - May 2008

Khujand, Tajikistan

- Developed a database-backed application that automated elective-course administration.

Technologies: PHP, JavaScript, MySQL, HTML, CSS

EDUCATION

Master of Science, Computational & Systems Biology | KTH

ROYAL INSTITUTE OF TECHNOLOGY

Feb 2013

Stockholm, Sweden

Bachelor of Science with Honors, Information Systems in Economics | TECHNOLOGICAL UNIVERSITY OF TAJIKISTAN - KHUJAND BRANCH

Jul 2009

Khujand, Tajikistan

AWARDS

- Software Engineer of the Year, Techno 2023 - National Business Association “Technologies and Innovation.”
- Platform of the Year, Innovation Time 2024 (“Время инноваций 2024”).

PROFESSIONAL MEMBERSHIPS & LEADERSHIP

- Senior Member, IEEE.
- Fellow, Hackathon Raptors - mentoring and supporting hackathon teams in software development and innovation.

SELECTED PUBLICATIONS

- “Performance Optimization Techniques for Microservice Architectures in High-Load Scenarios”
- “Regulation of OCT-2”
- “Evaluation of Software for Next-Generation Sequencing in Mapping”