

Gansaikhan Shur

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PROFESSIONAL SUMMARY

Senior Software Engineer and Technical Lead specializing in developer infrastructure, platform engineering, distributed systems, and applied AI. Experienced building enterprise-scale developer platforms at Mastercard and architecting production AI systems spanning data ingestion, context engineering, LLM inference, and cloud infrastructure.

WORK EXPERIENCE

Founder & Software Engineer, Neural Edge AI

Jan 2026 - Present

- Founded and built Neural Edge AI, a production AI coaching platform that transforms high-dimensional gameplay telemetry into personalized strategic analysis using custom context-engineering pipelines and large language models.
- Architected an end-to-end AI inference pipeline spanning replay ingestion, telemetry processing, context retrieval, prompt orchestration, and LLM inference using Python, FastAPI, PostgreSQL, and Next.js.
- Built context-processing pipelines that transform dense match telemetry into structured model context, supporting inference workloads exceeding 150K input tokens per analysis.

Sr. Software Engineer | Tech Lead, Mastercard

Mar 2024 - Present

- Architected and led the migration of \$600M+ in business-critical applications to a modernized platform, improving reliability and security while enabling retirement of legacy data-center infrastructure.
- Designed and launched first-class Python support for Mastercard's enterprise CI platform, standardizing build, test, security scanning, and deployment workflows across 100+ repositories and 20+ engineering teams.
- Founded and led Mastercard's AI Exploratory Special Interest Group, evaluating AI developer tools, identifying engineering use cases, and driving adoption of AI-assisted development practices across the enterprise.
- Architected backend APIs and developer tooling used by 20+ engineering teams, reducing CI/CD time from ~3 hours on average to ~45 minutes.
- Redesigned on-call tooling and support workflows, reducing customer support requests by ~65%

Software Engineer II, Mastercard

Oct 2022 - Mar 2024

- Led the modernization of Mastercard's internal static-analysis platform, redesigning legacy components to improve performance, maintainability, and scalability.
- Built an automated parallel-testing framework that reduced CI test execution time and accelerated developer feedback cycles.
- Diagnosed and resolved critical production incidents across application, infrastructure, and package-management systems, maintaining reliability of enterprise developer platforms.

AI Software Engineer, AppTek

Jul 2021 - Oct 2022

- Developed and evaluated deep-learning architectures for automatic speech recognition, including CTC, RNN-T, BLSTM, and end-to-end models using TensorFlow and RETURNN.

SKILLS

Languages: Python, TypeScript, SQL, Bash, C#, Java, Groovy

Backend & Data: FastAPI, PostgreSQL, MSSQL, GraphQL, REST APIs, Next.js

Infrastructure: Kubernetes, Docker, AWS, Azure, Terraform, Jenkins, CloudBees, GitHub Actions, Linux

AI & ML: LLM APIs, LLM Inference, Context Engineering, TensorFlow, RETURNN, CTC, RNN-T, ASR

Developer Tooling & Observability: Git, SonarQube, Black Duck, Fortify, Splunk, Dynatrace, Grafana, OpenTelemetry

EDUCATION

Bachelor of Arts, Computer Science & Data Analytics, Concordia College

Aug 2017 - May 2021