Azizbek Siddikov

Software Engineer

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Summary

Software engineer who ships LLM and computer-vision systems to production: an in-house RAG assistant, a Text-to-SQL agent, and an optimized YOLOv11 training pipeline at STRATIO. Builds AI products end to end, including agents and MCP servers.

Experience

Software Engineer — STRATIO, INC.
2025.07 – Present — Pangyo, South Korea

- Developed an in-house RAG knowledge assistant (custom retrieval pipeline, SSE streaming) used by internal teams and external customers, plus an admin console for data ingestion, error auditing, and conversation tracking
- Built an LLM-based Text-to-SQL agent workflow engine that dynamically generates and safely executes SQL, enabling self-service data exploration for non-engineering teams
- Cut YOLOv11 training 15–20× by profiling pipeline bottlenecks and moving datasets to local GPU storage; epoch time 3–3.5h → 11–14min on 600K images, mAP@0.5:0.95 97%
- Rebuilt the order page as a modular pricing/shipping/promo/tax config interpreter, cutting duplicate code ∼4×
- Deployed and updated backend services on the company's existing AWS setup (compute and storage)
- Automated hardware QA throughput by converting calibration/PCB validation into a batch-mode executable with structured logs and failure codes; reduced operator steps 8 → 2 and supported 8–10 devices per run in parallel
- **Technologies:** Python, Django, Ultralytics, OpenCV, ClearML, PHP, JavaScript, Express.js, React, Nginx, Docker, AWS, Gemini APIs, Stripe, PostgreSQL, MariaDB, TaxJar

Full Stack Developer — TheFalse
2024.09 – 2025.05 — Seoul, South Korea

- Built and launched a "Twitter for books" social platform end-to-end with a 3-person team (auth, posts, follows, feed, search)
- Engineered the feed and GraphQL API with cursor-based pagination and resolver batching/caching, eliminating N+1 queries
- Containerized the app and added a CI/CD pipeline with validation and logging for faster, more stable deployments
- **Technologies:** TypeScript, NestJS, Next.js, GraphQL, PostgreSQL, Docker, Nginx

Lab Assistant — SISTech-AI Co., Ltd.
2023.03 – 2024.08 — Seoul, South Korea

- Built dataset ingestion/QA pipelines for CV projects, automating validation and quality dashboards
- Developed an internal Python library (preprocessing, manifests, format converters), cutting dataset prep time 60%
- Defined annotation standards in CVAT/MakeSenseAI and led 3 data labelers to improve consistency
- Built a LangChain-based LLM data-cleaning agent that automates missing values, deduplication, and outlier removal
- **Technologies:** Python, OpenCV, Pandas, CVAT, MakeSenseAI

Skills

- **Languages:** Python, TypeScript, JavaScript, SQL, PHP
- **AI & ML:** RAG, LLM agents, MCP servers, LLM evals, Gemini API, YOLO (Ultralytics), OpenCV, scikit-learn, ClearML
- **Backend:** Django, FastAPI, NestJS, Node.js/Express, GraphQL, REST, SSE streaming
- **Frontend:** React, Next.js, Redux Toolkit, Apollo Client, MUI
- **Data:** PostgreSQL, MongoDB, MariaDB, Pandas
- **DevOps & Cloud:** Docker, Nginx, Linux, CI/CD, Cloudflare, Vitest, AWS

Education

B.Sc., Computer Science and Engineering & Hotel and Tourism Management 2022.09 – 2026.08
Sejong University Seoul, South Korea

- GPA: 4.3/4.5 – Sejong University Scholarship 2022–2026 (98–99th percentile)
- Club President, Uzbek Students Club at Sejong University (2025.08 – 2026.08)

Academic Lyceum of Westminster International University in Tashkent (ALWIUT) 2020.09 – 2022.07
GPA: 5/5 Tashkent, Uzbekistan

Certifications & Awards

- **TOPIK 5 (out of 6)** – Korean proficiency 2025.11
- **KAIST Electrical Engineering Camp** – top 2% (61 of 3,400 applicants, 121 countries), fully funded 2025.08
- **Machine Learning Specialization** – Stanford & DeepLearning.AI (3 courses) 2024.07
- **IBM Data Analyst** – professional certificate (9 courses: SQL, Python, data visualization) 2023.11
- **WIUT Scholarship** – full scholarship 2022.08
- **IELTS 7.5 (out of 9)** – English proficiency 2021.12
- **SAT 1420 (out of 1600)** 2021.08

Languages

- English (Fluent) · Korean (Advanced, TOPIK 5/6) · Russian (Native) · Uzbek (Native)

Projects

Tuja – AI Finance App tuja.azbek.me tuja pg-guard-sql

- Multi-currency finance app forked from an MIT banking tutorial. Added a read-only Gemini assistant behind a guarded SQL layer (open-sourced as the pg-guard-sql MCP server) and fixed an IDOR (insecure direct object reference) that exposed other users' accounts

seoul-events-mcp – MCP Server seoul-events-mcp

- MCP server that lets Claude or Cursor answer "what's on in Seoul" in English, searching Eventify and Seoul Open Data events with caching and a fallback when a source is down

Eventify – Event Platform eventify.azbek.me eventify-client eventify-backend

- Event platform in 4 languages where users find events, join groups, and get tickets; scrapers import events from Meetup and Luma, and Gemini moderates and sorts them into categories

Wearit – E-commerce Store wearit.azbek.me wear-it-react wear-it

- E-commerce store (React, Node/TypeScript, MongoDB) with admin panel, transactional orders, and per-variant stock handling