HAMIDULLO TUYCHIBAEV

Full-Stack Software Engineer

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SUMMARY

Full-stack software engineer with 6 years in IT, from system administration to building complete web platforms. Builds end-to-end products with Vue 3, Node.js/Express and PostgreSQL: POS and inventory systems, HR and attendance platforms with biometric hardware integration, and AI-powered education tools. Ships fast with AI-assisted development (Claude Code), backed by automated testing (Vitest, Playwright) and Docker-based deployment. Master's degree in engineering-programming.

SKILLS

- **Languages:** JavaScript, TypeScript, Python, SQL
- **Frontend:** Vue 3, Vite, Pinia, Tailwind CSS, PWA, ECharts, Three.js
- **Backend:** Node.js, Express, Fastify, Socket.io, FastAPI, REST/OpenAPI, JWT authentication
- **Databases:** PostgreSQL (pgvector), MySQL, Redis; ORMs: Prisma, Drizzle
- **Infrastructure:** Docker, Docker Compose, Nginx (TLS/mTLS), BullMQ, MQTT, Linux, Git
- **Testing:** Vitest, Playwright (end-to-end)
- **AI:** Claude API (LLM integration), AI-assisted development, ONNX Runtime (face recognition)
- **Integrations:** Telegram bots (grammY, Telegraf), Hikvision ISAPI, ZKTeco, fiscal (online cash register) APIs

EXPERIENCE

Namangan State Technical University — Namangan, Uzbekistan
(formerly Namangan Institute of Engineering and Technology)
Digital Education Technologies Center, Network Management Department

Content Manager Apr 2025 – Present

- Manage content on the university website and digital learning platforms.
- Coordinate digital education services together with the network management team.

Software Engineer 2022 – Mar 2025

- Developed and maintained web applications and internal systems for the university's digital education center.
- Supported the university network infrastructure and digital learning services.
- Built an online testing system for the university (Vue 3, Fastify, PostgreSQL, Playwright).

MYDIGITAL LLC — Technical System Administrator 2021 – 2022

- Administered servers, network equipment and user workstations.
- Provided technical support to staff and handled backups, updates and system monitoring.

DURABLE MANAGEMENT CO LLC

Software Engineer 2020 – 2021

- Developed and maintained internal software and web applications for company operations.

IT Specialist 2020

- Set up and supported company hardware, software and the office network.

PROJECTS

CEFR-Tutor — CEFR Multilevel exam preparation platform

Vue 3, Express, PostgreSQL, Claude API

- Built lessons and practice for levels A1–C1 plus full mock tests covering all four skills (Listening, Reading, Writing, Speaking), with section timers and an estimated CEFR level.
- Integrated AI scoring for Writing and Speaking (task, coherence, vocabulary and grammar criteria), pronunciation metrics (ASR confidence, words per minute) and AI grammar correction.
- Generated Listening audio with neural TTS; added progress tracking, a role-based admin panel and secure httpOnly session authentication.

Kassabek — POS and inventory platform for clothing retail

Vue 3, Express, Drizzle, PostgreSQL, Redis, BullMQ

- Offline-capable PWA cash register with barcode scanning, size and color variants, installments, customer debt (FIFO), bonuses and gift cards.
- Implemented fiscal receipt submission to the tax service (online cash register, QR receipts) and accounting exports (Excel, CSV for 1C).
- Built analytics (hourly sales heatmap, ABC analysis, dead stock), a Telegram bot for daily reports and alerts, and an Uzbek/Russian interface.

HT-WorkOS — Attendance, access control and HR platform

Vue 3, Express, Prisma, PostgreSQL, Redis, Capacitor

- Designed a monorepo with a core API, device gateway, admin panel, employee mobile app (PWA/Android), Telegram bot and camera-AI face service.
- Integrated biometric hardware (ZKTeco, Hikvision ISAPI, Dahua) through one Zod-validated event schema, plus an on-premises agent for BioStar 2, PERCo and Sigur.
- Implemented the attendance calculation engine, payroll calculation and a role/permission matrix.

SciNexa — AI-powered technology transfer platform for pharma (hackathon project)

Vue 3, Express, Prisma, PostgreSQL (pgvector), Socket.io, Docker

- Built a 7-stage AI matching pipeline (extraction, embeddings, pgvector, rules) that links research projects with industry challenges and explains every match score.
- Implemented 13 user roles with a permission matrix, NDA and negotiation rooms, TRL/CRL/GMP readiness assessments and a natural-language search assistant.
- Shipped a production Docker stack with TLS, CSP/HSTS headers, rate limiting, account lockout and backup/restore.

Observator Plus — On-premises device monitoring platform

TypeScript, Node.js, Express, PostgreSQL, Nginx

- Developed a Windows service agent (DPAPI key store, encrypted queue, PowerShell collectors) and a core backend with an OpenAPI specification.
- Built an internal PKI (ECDSA P-256 client certificates, CRL) with Ed25519 request signing and an Nginx mTLS edge.
- Covered the trilingual web console with a Playwright end-to-end matrix (3 locales x 2 themes x desktop/mobile).

EDUCATION

- Master's Degree, Engineer-Programmer | Namangan State Technical University | 2023 – 2025
- Bachelor's Degree | Tashkent University of Information Technologies | 2017 – 2021

LANGUAGES

Uzbek (native) | Russian (fluent) | English (B2, Upper-Intermediate)