Vladimir Khegai

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Education

Rhodes College Memphis, TN
B.S. in Computer Science and Mathematics *Expected May 2029*

- GPA: 4.0/4.0 | Diehl Scholar (full academic merit) | Jack U. Russell Award, First-Year Computer Science (2026)
- Coursework: Data Structures & Algorithms, Parallel Systems, Computer Organization, Object-Oriented Programming, Discrete Structures

Experience

Co-founder & CTO 2026 - Present
Winitt (3-person founding team) *Memphis, TN*

- Architecting a real-time trivia platform for bars with synchronized live rounds and prizes (Next.js, Fastify, PostgreSQL, Redis, BullMQ); own core architecture decisions, recorded as ADRs
- Designed server-authoritative scoring: every scoring timestamp comes from Postgres, and per-client RTT calibration (fastest of five pings, capped at 1.5 s) keeps answer speed fair across devices
- Built auth and account lifecycle: Google OAuth, invite-link gating, sessions, soft deletion with a 30-day data scrub
- Building anti-fraud tooling (integrity scoring, fraud review queue) and verifiable commit-reveal seeding

Software Engineering Intern May 2024 - Feb 2025
Geeks Pro *Bishkek, Kyrgyzstan*

- Shipped 10+ Django REST Framework endpoints (auth, CRUD, reporting) for an agriculture-sector client
- Introduced an abstract Django base model inherited by 20+ models for timestamps, audit fields, and soft deletes
- Worked in a 5-person Agile team with stand-ups, PR reviews, and a Git workflow, shipping features to production

Freelance Full-Stack Developer 2024 - Present
Kyrgyz Taekwondo ITF Federation (tkd-itf.kg) *Remote*

- Built and maintain the federation's website (Django, React, PostgreSQL), self-hosted on a Linux VPS with Nginx

Projects

Daviance | *Rust, Tree-sitter, ed25519, MCP* 2026

- Co-built a verifier that gives each AI coding agent run one of four verdicts with replayable signed evidence
- Tree-sitter tamper analysis catches deleted tests, added skips, and weakened assertions; caught 42/42 planted cheats in the latest benchmark; 0 false accusations to date across 1,793 honest cases, including 1,138 agent PRs

Nodex | *TypeScript, Chrome MV3, MediaPipe Face Mesh* 2025

- Shipped solo a Chrome Web Store accessibility extension: hands-free YouTube control by head gesture, on device
- Split code across MAIN and ISOLATED worlds to work within YouTube's Trusted Types CSP restrictions

TrancheLab | *Python, LLM pipelines, PDF parsing, PostgreSQL* 2025 - Present

- Built five parallel extractors that pull capital structures from Chapter 11 filings, every figure source-linked
- Zero confidence for unsourced values; CI gate on real cases (JOANN, Hertz, Rite Aid) blocks accuracy regressions

Technical Skills

Languages: Python, JavaScript/TypeScript, Rust, SQL, C, Java
Frameworks: Django, Django REST Framework, Next.js, React, Fastify
Infrastructure & Tools: PostgreSQL, Redis, BullMQ, Linux, Nginx, Git, Tree-sitter, MCP

Awards & Activities

ITF Taekwondo: World Champion (2025), World Games Champion (2024), Asian Champion (2021)
Leadership: Vice President, Computer Science Club; Secretary, AI & ML Club; Resident Assistant
Community: Head Event Organizer, Turkic Student Association
Hackathons: Winner, DSH Hacks (2026); 11 hackathons
Research: Co-authored SSRN paper on single vs. grouped wind turbine efficiency (2024)