

Tashkent, Uzbekistan

Azimjon Kamiljanov

Lead AI Systems Architect • Senior Full-Stack Engineer

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PROFESSIONAL SUMMARY

Senior AI Systems Architect and Full-Stack Engineer specializing in autonomous multi-agent ecosystems, real-time WebRTC/VoIP duplex audio pipelines, GPU-accelerated neural inference, and high-performance 3D WebGL applications. Architect behind **CyberAgent TITAN NEXUS**, a production autonomous AI agent capable of full-duplex conversational voice telephony via Telegram, local CUDA acceleration (RTX 5070), and 180+ system control tools. Dedicated to rock-solid software architecture, zero-latency execution, and elegant user interfaces.

CORE TECHNICAL COMPETENCIES

AI & Deep Learning:	Python 3.12, PyTorch 2.14, CUDA 13, Whisper Large-v3-Turbo, Kokoro TTS, Gemini 3.8 Flash, DeepSeek R1, Groq LPU, Agent Tooling, Multi-Agent Swarms.
VoIP & Telephony:	WebRTC Duplex Streaming, Telegram Hydrogram VoIP Engine, Real-time Audio DSP, Echo Cancellation, Low-latency Pipelines.
Frontend & 3D:	Three.js, WebGL, GLSL Custom Shaders, React, Next.js, TypeScript, TailwindCSS, GSAP, Responsive Mobile/Desktop UX.
Backend & Systems:	Node.js, Express, FastAPI, PostgreSQL, Redis, RESTful APIs, WebSockets, Linux Systems Programming (Arch/Zen).
DevOps & Cloud:	Docker Engine 29.7.2, Portainer, Cloudflare Tunnels/Workers, CI/CD, Git, DevSecOps (OWASP GenAI Security).

KEY PROJECTS & ARCHITECTURAL ACHIEVEMENTS

CyberAgent TITAN NEXUS — Creator & Chief Architect

Python • PyTorch • WebRTC • Gemini 3.8 • RTX 5070
CUDA

- Engineered an autonomous cognitive agent featuring live 1-on-1 full-duplex voice phone calls over Telegram VoIP via custom WebRTC integration.
- Implemented an ultra-fast audio processing pipeline combining PyTorch Whisper Large-v3-Turbo for STT and Kokoro for natural voice synthesis running locally on RTX 5070 GPU.
- Integrated 180+ autonomous system tools enabling shell execution, container management, codebase refactoring, and automated web research.

3D Solar System Developer Portfolio — Lead 3D & Graphics Engineer

Three.js • WebGL • GLSL • GSAP • PWA

- Developed a photorealistic 3D WebGL solar system featuring the Sun, 9 planets with axial tilts and rings, the Moon, and an authentic asteroid belt with 1,400+ asteroids using InstancedMesh at 60 FPS.
- Authored custom GLSL solar prominence & corona shaders with simplex noise turbulence and realistic ACESFilmic tone mapping.
- Created Cinematic Tour Mode with smooth Bézier camera paths and an interactive Direct AI Moon communication terminal.

UstaPro Master CAD 3D — Lead Engineer

Three.js • Telegram Mini App • TypeScript • CAD Algorithms

- Built an interactive 3D construction modeling and estimation tool for roofs, ceilings, walls, and flooring with real-time bill-of-materials generation.
- Achieved 100% automated test pass rate (98/98 tests) with seamless Telegram WebApp integration.

CareTrack Clinic ERP — Full-Stack Architect

Next.js • Node.js • PostgreSQL • HIPAA Standards

- Architected enterprise medical CRM/ERP platform with electronic medical records (EMR), laboratory workflows, role-based access control, and encrypted patient data management.

HARDWARE & ENGINEERING LAB RIG

Hardware: Lenovo Legion Pro 5

CPU: AMD Ryzen 9 9955HX (32 vCPUs)

GPU: NVIDIA RTX 5070 Laptop (8GB VRAM)

RAM: 32 GB DDR5
1TB NVMe

OS: EndeavourOS Linux (Zen Kernel)

LANGUAGES & COMMUNICATION

Uzbek (Native) • English (Professional Working Proficiency) • Russian (Professional Working Proficiency)