

# Khalil Selyan

Full Stack Developer / Tech Lead

+971 50 225 7580 | [khalilselyan@gmail.com](mailto:khalilselyan@gmail.com) | [LinkedIn](#) | [Github](#) | [khalilselyan.com](http://khalilselyan.com)

## Technical Skills

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**Languages:** TypeScript, Rust, C++, Go, Solidity  
**Frontend:** React, Svelte/SvelteKit, Next.js, Three.js, Tailwind CSS  
**Backend:** NestJS, tRPC, Node.js, WebSocket, ROS2  
**Tools:** Tauri, Electron, PostgreSQL, SQLite, AWS, Docker, CI/CD

## Career History & Achievements

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**Tech Lead | Remote** **09/2025 – Present**

[Teneo.pro](#)

*Decentralized data infrastructure platform with 500k+ community nodes*

- Promoted from full-stack developer to tech lead after 7 months; now own **architecture, code standards, and CI/CD** across all backends (NestJS), frontends (React), and the community node browser extension.
- Architected the **Teneo Agent ecosystem end-to-end**: the core **Go WebSocket server**, agent deployer, **TypeScript SDK** (v1–v3), chat UI, database schema management (via **dbdump**, an open-source PostgreSQL schema comparison tool), and admin panel—owning every layer from backend to frontend.
- Integrated **multi-network payment support** (x402, BSC) across the agent platform frontend, SDK, and admin panel, enabling automated crypto payments for AI agent API calls.
- Define and enforce architecture, tooling, and code review standards; translate product requirements into GitHub issues with acceptance criteria.

**Full Stack Developer | Remote** **02/2025 – 08/2025**

[Teneo.pro](#)

- Rewrote the community dashboard from deprecated **React CRA** to **Vite + TanStack Query**, cutting initial load time by **50%** and replacing brittle data-fetching patterns.
- Built passive and active scraping into the **Chrome extension** using DOM reading and **Puppeteer** command generation via AI prompting, deployed to 500k+ connected nodes.
- Designed a **config-driven scraping system** pushed via WebSocket, eliminating the need for frequent extension updates and reducing user friction.
- Authored and maintained the official **Teneo SDK** (npm) through 3 major versions, supporting multi-room management, agent customization, and payment flows.

**Full Stack Developer | Turkey** **07/2022 – 12/2024**

[LeoDrive.ai](#)

*Autonomous vehicle integration using OSS Software Autoware*

- Built open-source devtools with **Tauri (Rust)** and **Next.js** for **building** and **launching** the Autoware Software Suite, replacing a manual 30+ minute setup with a one-click workflow.
- Created **LeoADViz**, a real-time 3D visualizer rendering **500k+ lidar points/sec** with detected objects and camera feeds using **Electron, Three.js, and ROS2**.
- Created **Orbis**, a lidar/camera positioning tool (**Next.js, Three.js, NeonDB**) that reduced 3D re-render time by **90%** through BVH acceleration.
- Developed and maintained **RViz2 plugins** using **C++ and ROS2** with Material 3 Design, enhancing visualization for autonomous vehicle development.

**Full Stack Developer | Remote** **03/2023 – 08/2024**

[Chiho.ai](#)

*Smart Telegram CRM that streamlines chats into actionable tasks*

- Led development of a Telegram bot for real-time CRM notifications and interactive workflows as part of a 3-person team serving Web3 and Crypto users.

- Migrated the web app from **Redux Toolkit to tRPC + Zustand**, halving state-management boilerplate and streamlining the developer experience.
- Implemented **TanStack Table** for advanced contact list management, improving visualization and interaction with large datasets.

## Personal Projects

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### JK (In Development)

*Cross-platform (desktop + Android) habit-formation app for ADHD users — SvelteKit, Tauri (Rust), SQLite*

- Built a visual **node-based workflow editor** (XYFlow) with 8 specialized node types (tasks, blockers, timers, focus, breaks) for building custom habit routines and chains.
- Integrated on-device AI photo verification using **LLaVA via Ollama**—users prove task completion with a photo, verified locally with no cloud dependency. Includes **EXIF metadata validation** to prevent backdated submissions.
- Implemented **cross-platform peer-to-peer sync** between desktop and Android over WebSocket + mDNS discovery with per-table conflict resolution and QR code pairing—no cloud required.
- Built a full **gamification engine**: XP awards, leveling, achievements with rarity tiers, weekly challenges, and streak milestones with psychology-backed bonus thresholds.
- Platform-specific native integrations in **Rust** (app blocking, DND, biometrics) across macOS, Windows, Linux, and Android.

### Elinay

*SaaS for interior architects to manage and diff AutoCAD (DXF) data, budgets, and dimensions*

- Built with **SvelteKit**; backend uses **Rust Lambda functions** on AWS for DXF parsing (dxf-rs), achieving **70% faster** processing than the JS equivalent.
- Web-based **DXF viewer** to visualize architectural plans, with a **diff tool** to compare two DXF file versions side-by-side.
- Multi-tenant support with **project spaces and organizations**; display blocks, layers, and texts with search, dimension measurement, and area calculation for budget preparation.

### DevBout (source)

*Decentralized hackathon platform with on-chain prize distribution*

- Built custom **Solidity** smart contracts integrating **Request Network** for automated prize distribution and participant management in both ETH and ERC20 tokens.
- Full-stack app with **SvelteKit, PostgreSQL, and tRPC**; features hackathon creation, team management, submission workflows, and on-chain participant verification via **Ethers.js**.
- Responsive UI with **Tailwind CSS** focused on intuitive hackathon management; includes a [video demo](#).

## Certifications

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**Three.js Journey — 3D Certificate**

Feb 2023