Michael Tot

Senior Systems Engineer · Game-Server Security & Reverse Engineering

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13 years building and securing multiplayer game servers (Lua/GLua, C#, Python): anti-exploit and net-message hardening on live economies. Reverse engineering with Ghidra, assembly and C; building Luminol, a C# GLua deobfuscator. AI-native: directs AI agent crews for building, testing and security review.
EU citizen (German) · CET, remote; works across EN / DE / SR.

Experience

Senior Systems Engineer (sole developer), Game-Server Security · 2024 – present
Diverge Networks, a top Garry's Mod roleplay community · contract, remote

- Owned the entire codebase solo: ~708 commits and 173 issues across 22 months.
- Closed item-duplication, restriction-bypass and net-message exploits on a live player economy; shipped live-safe hotfixes.
- Built forensics (fingerprints, casings, residue, case files) and justice systems (records, jail, bail, warrants); migrated storage from files to MySQL with zero item loss.

Owner & Lead Developer · Game-Server Community · 2018 – 2024
One of the largest Garry's Mod roleplay communities · remote

- Hired as its developer, then bought and ran it: sole developer, head of staff and operator; server full daily at peak.
- Hired and paid a community manager; handled payments, disputes and targeted attacks on the community.
- Sold the community; continued independent development work until joining Diverge.

Game-Server Developer (freelance) & Programming Tutor · 2013 – 2018
Multiplayer game communities, private clients · remote

- Custom gameplay systems, addons and server tooling in Lua/GLua for paying clients from age 13.
- One-to-one programming tutor since my teens; my current client was once my student.

Security & Reverse-Engineering Projects · ongoing

- Luminol (C#, .NET 11, in development): obfuscator-agnostic GLua deobfuscator, a pipeline of AST rewriters on Loretta, for security analysis.
- Dojo Arena (C#): V Rising PvP server mod, co-developed, fully rewritten and released open source.

Skills & Tools

Languages: Lua / GLua, C#, Python, SQL (MySQL) · **Security / RE:** exploit auditing, anti-cheat, net-message hardening, Ghidra, assembly and C reading, AST tooling (Loretta) · **Platforms:** .NET, Linux / VPS, Git, RCON, Garry's Mod, V Rising modding · **AI:** Claude Code, multi-agent workflows (build, test, security review)

Spoken: Serbian (native) · German (bilingual) · English (bilingual) · French (learning)

Education

Gimnazija "Jovan Jovanović Zmaj", Novi Sad: natural sciences and mathematics, one of the most selective schools in Serbia; perfect grades in the final year (2018).