

Toprak Yagcioglu

SOFTWARE ENGINEER. Mobile apps, native macOS tools, security tooling. Looking for a 3-month internship.

Twenty-two. 3rd-year B.Eng. Software Development at Uniwersytet WSB Merito Wrocław. I build complete things: **Öğrenci Nerede Yer**, a React Native social app for university students (live in TestFlight); **Glitch**, an open-source AI-native pentest workbench; and **Nexus**, a macOS hub for 7 AI coding CLIs. On the side, bug bounty hunting on HackerOne (**Amazon**, **Trendyol**) and electric guitar · mostly Pink Floyd solos by ear. **Looking for a 12-week internship** · summer 2026 (sem. 6) or winter 2026/27 (sem. 7, Erasmus+ possible).

§ SELECTED WORK

N° 01 Öğrenci Nerede Yer TESTFLIGHT BETA 2025 → NOW · SOLO
Restaurant discovery, social feed, meal-buddy matching and real-time chat for students in Wrocław. Currently in TestFlight beta.

TRY IT → testflight.apple.com/join/wTukQquP

Designed end-to-end: 20-table Postgres schema with RLS and SECURITY DEFINER RPCs; 10 Zustand stores with optimistic updates; real-time chat via Supabase Realtime; glass-morphism UI in React Native (TS strict).

Shipped to TestFlight via EAS Build + GitHub Actions (fingerprint-aware); Sentry error taxonomy; GDPR-compliant account deletion via Edge Function.

STACK typescript · react native · expo · supabase · postgres · zustand · sentry · github actions

N° 02 Glitch AI-native HTTPS proxy & pentest 2026 · SOLO · OPEN-SOURCE workbench (macOS)
Burp Suite and Claude Code, fused. Proxy + AI workers + autonomous scanner, scope-enforced per engagement.

Built a crash-tolerant HTTPS proxy on mitmdump with content-addressed body storage and a "right-click → AI worker" flow that spawns scoped claude -p subprocesses with a custom MCP server attached.

Bundled a Python planner + specialist-swarm autonomous scanner; every finding lives on disk inside an engagement directory · the database rebuilds from disk if nuked.

STACK electron · typescript · python · mitmproxy · model context protocol · sqlite

N° 03 Nexus native macOS client unifying 7 AI coding CLIs 2026 · SOLO
A Swift / SwiftUI app to manage Claude Code, Codex, Gemini, Aider, OpenCode, Goose and Amp from a 3-column workspace.

Wrote a per-tool stream-parser layer (NDJSON, event JSON, markdown) all normalised to a universal NormalizedMessage · adding a new tool = one parser, nothing else.

Managed PTY sessions on raw POSIX (posix_openpt, grantpt) inside a Swift actor; async SQLite via GRDB; API keys in the macOS Keychain only.

STACK swift 5.9 · swiftui · appkit · grdb · keychainaccess · swiftterm · posix pty

N° 04 ToneForge open-source live guitar rig for Mac 2026 · SOLO
Standalone guitar effects processor: 29 effects, 118 presets, 9 amp models, ~8 ms round-trip latency.

Wrote the real-time DSP in C with lock-free atomic parameters · no allocations, no locks, no Objective-C dispatch on the audio thread; AVAudioEngine in Swift.

Implemented a WSOLA octaver, YIN harmoniser, autocorrelation tuner, Fuzz Face / Big Muff models, tube-saturation amps with real tonestack values; SwiftUI pedalboard with MIDI + 60-second looper.

STACK swift · swiftui · avaudioengine · custom c dsp · coremidi



Toprak · Wrocław, 2026

PARTICULARS

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EDUCATION

B.Eng. Computer Science
Software Development
Uniwersytet WSB Merito Wrocław · English-language engineering programme.
OCT 2023 → FEB 2027 · SEMESTER 5

TOOLS OF THE TRADE

LANGUAGES
TypeScript · Swift · Python · JavaScript · SQL · C · Bash
NATIVE / MOBILE
React Native · Expo · SwiftUI · AppKit · AVAudioEngine
BACKEND
Supabase · Postgres (RLS, RPCs) · Node · Flask · Deno
DEVOPS
GitHub Actions · EAS Build · Docker · nginx · Sentry
AI & SECURITY
Claude / OpenAI / Gemini · MCP · mitmproxy · Burp

LANGUAGES

English ●●●●○ B2
French ●●●○○ B1
Turkish ●●●●● NATIVE
Polish ●●○○○ A2

BUG BOUNTY

HackerOne · [@toprak_y](https://hackerone.com/@toprak_y). Responsible-disclosure findings against **Amazon** and **Trendyol**.