MUSTAFA CAN HIDIROGLU

Computer Science Student · Software & Web Developer

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PROFILE

Computer Science student at the University of Leeds who builds and ships working software: a tested Python telemetry-analysis tool with a native macOS app, a live web business built and deployed solo, and open-source developer tools. Previous experience as a Junior Software Engineer. Looking for part-time work in development, QA/testing or IT support: **up to 20 hours a week in term time, full-time in university vacations**, on-site in Leeds or remote.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, Swift/SwiftUI, C, C++, Kotlin, C#, HTML/CSS, SQL
Frameworks	React, Next.js, Vite, Supabase (Postgres), pandas/NumPy, .NET Avalonia
Tools	Git & GitHub, pytest, Cloudflare Pages, Vercel, VS Code, Xcode, Figma
Web quality	Lighthouse/PageSpeed performance tuning, WCAG accessibility checks, technical SEO
Spoken	English (C1, advanced), Turkish (native), Russian (B1, intermediate)

PROJECTS

Tallyhouse Studio, founder: website speed & accessibility audits — Nov 2026 – present

- Designed, built and deployed the studio website (static HTML/CSS on Cloudflare Pages). It scores **100/100 in all four Google PageSpeed Insights categories**.
- Launched a paid audit service and a free checklist product on Gumroad, including product pages and cover designs.
- Built an interactive contribution-margin calculator for online shops and a lead-scoring spreadsheet.

f1lap: Formula 1 lap telemetry analyser (Python, SwiftUI, .NET) — GitHub

- Python library and CLI that aligns laps on a common distance grid and compares them corner by corner. It rates laps against a simulated perfect lap and explains in plain language where the time was lost.
- Native desktop apps for macOS (SwiftUI) and Windows (.NET/Avalonia) run the library as a background process and include an animated replay on the track map.
- Covered by **186 automated pytest tests**, including robustness tests for messy real-world data.

NotchPilot: macOS menu-bar assistant (Swift, C++20) — GitHub

- Captures system audio with ScreenCaptureKit into a lock-free C++20 ring buffer, transcribes it on-device and drafts AI replies in a notch-style panel.

Claude Code Prompt Router: open-source developer tool — GitHub

- Sends each prompt to the right AI model tier using local rules, with zero network calls.

EXPERIENCE

Junior Software Engineer, *Caretta Software*, Istanbul — Jun 2023 – Sep 2023

- Designed and developed software features from initial project briefs through to delivery.
- Added new features to existing applications to improve functionality and user experience.

Junior Archery Coach, *Arti Okculuk*, Istanbul — Jul 2024 – Sep 2024

- Planned lessons, assessed each student's skills and set personalised goals, including for students with disabilities.
- Explained technical skills clearly to beginners of all ages, which I now use to explain technical issues to non-technical users.

EDUCATION & CERTIFICATIONS

BSc Computer Science, University of Leeds — Expected 2028

Building AI Agents with MongoDB, MongoDB University (verify) — Nov 2026

Anthropic Academy: Claude Code 101 (verify); Claude Code in Action (verify); Human-Agent Teams (verify) — Nov 2026

Google AI Fundamentals, Google, Coursera (completed) — Nov 2026