Muhammet Alparslan Semiz

Full-Stack Developer · Computer Science at KIT

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Computer science student at KIT (5th semester) and working student at Traggert, where I build Flutter features and look after CI/CD and deployments. Full-stack across React and TypeScript, Java and Spring Boot, and Python and FastAPI, with a strong focus on automated testing. I build and run my own products end to end, and I set up the test and review gates that let AI coding agents work on them safely.

Work experience

Aug 2026 – Present
Full-Stack Developer (Werkstudent) · Traggert, Karlsruhe
- Build frontend features in Flutter/Dart for the company's product.
- Write backend tests and fixes in TypeScript; look after CI/CD pipelines, deployments and environments.

`Flutter · Dart · TypeScript`

May 2026 – Present
Website and IT · Semiz Hukuk Bürosu, Istanbul
Run the website (**semizlaw.com**) and the IT of my brothers' law firm.

Education

Oct 2024 – Present
Karlsruhe Institute of Technology (KIT) · Karlsruhe, Germany
B.Sc. Computer Science, 5th semester, expected 2028. Focus: AI and software engineering.

Sep 2019 – Jun 2024
Istanbul Erkek Lisesi · Istanbul, Turkey
Deutsches Abitur (taught in German) and Turkish high school diploma.

Awards

2019
Perfect score (500/500) in Turkey's high school entrance exam (LGS), among 1M+ candidates

Student organisations

Oct 2025 – Present
Member, developer · Delta, KIT student consulting group
- Built **InvoiceFlow**, Delta's internal invoicing web app, in a team of three (Oct 2025 – May 2026): configurable Next.js and React forms, tRPC APIs, Prisma and PostgreSQL.
- Implemented PDF export, Factur-X XML, archival snapshots, status transitions and sequence-based invoice numbering.

`Next.js · React · tRPC · Prisma · PostgreSQL`

Apr 2026 – Present
Developer · PionierGarage e.V., KIT entrepreneurship club

Nov 2025 – Present
Mentor · Noctisol, supports international students coming to Germany

Team projects

May 2026 – Sep 2026
RateMyProf · KIT software engineering course (PSE), team of 6
- Built nearly all of the React and TypeScript admin panel (dashboards, users, comment moderation, bug-report queue, audit and activity logs), with Vitest, Playwright end-to-end and axe accessibility tests.
- Designed the audit log with undo and the admin moderation API in the Spring Boot backend; split the auth, social and moderation services into single-purpose classes.
- Wrote most of the backend test suite: integration tests on real PostgreSQL, concurrency and OpenAPI contract tests, JaCoCo coverage gates.
- Built most of the GitLab CI pipelines and added secret scanning (gitleaks), dependency scanning (Trivy) and nightly mutation testing (PIT); Docker deployment of the admin panel.

`React · TypeScript · Spring Boot · Java · PostgreSQL · Docker · GitLab CI`

May 2026 – Present (paused)

I Am In The Library · mobile app, team of 3

- Built an opt-in auto check-in with Expo Location: a geofence watcher that rejects mock locations, filters by GPS accuracy and retries after a wait.
- Settings, notification inbox (Supabase SQL and UI), onboarding tour, in-app bug reports with crash tracking and their admin console.

`React Native · Expo · Supabase`

Apr 2026

Lost Soul · 48-hour game jam at KIT (ClementineJam), team of 4

- Gameplay programming for a dark-and-light 2D platformer: player movement and abilities, level mechanics, scene flow.

`Godot · GDScript`

Personal projects

Jun 2026 – Present

GameMetrix

One score per game for 50,000+ games: ratings from Metacritic, OpenCritic, Steam and IGDB, with the ranking pulled toward neutral when data is thin. Live at **gamemetrix.me**.

- CI: pytest on PostgreSQL, Playwright, Lighthouse, Bandit, pip-audit, secret scanning. Runs on a 1 GB server (Docker Compose, nginx, Cloudflare) with auto-deploy, watchdogs and nightly backups.

`React Router SSR · FastAPI · PostgreSQL · Docker · GitHub Actions`

Aug 2026 – Present

Mozaik

Offline school timetable builder, made alone for my father's course: one HTML file, an offline site and a Windows app (Tauri 2, Rust), in five languages. Source-available (PolyForm Noncommercial).

- OR-Tools CP-SAT solver: teachers' idle hours between lessons at the sample school fell from 271 to 61 a week.
- 1,000+ unit and 700+ end-to-end tests in five browsers, mutation testing, architecture and size checks in CI.

`TypeScript · React · Tauri (Rust) · OR-Tools`

2026

Şerit, Veda and Kumanda

Open-source macOS apps in Swift: a Touch Bar that survives sleep and app switches, quitting apps on their last window (a polling workaround for macOS 26), a game controller as a mouse. Private APIs are looked up at run time, so a missing one turns off only its feature.

`Swift · AppKit · Accessibility API · Homebrew · GitHub Actions`

Nov 2026 – Present

Weekly Picks

Curation bot on Cloudflare Workers and D1: collects and ranks links, lets Claude Haiku pick six and publishes each issue by pull request at **alparslansemiz.com/picks**.

`Cloudflare Workers · D1 · TypeScript · Claude API`

Skills

Languages	TypeScript, Java, Python, Swift, GDScript, SQL; also Dart, Rust
Frontend and mobile	React, Next.js, Flutter, React Native (Expo), Android (Java)
Backend and data	Spring Boot, FastAPI, tRPC, PostgreSQL, Supabase
DevOps	Docker, GitHub Actions, GitLab CI, Cloudflare Workers, nginx, Linux servers
Testing and quality	Playwright, Vitest, JUnit, pytest, mutation testing (PIT, Stryker), gitleaks, Trivy, Bandit
Also	macOS (AppKit), Godot, Tauri, OR-Tools CP-SAT, AI coding agents (Claude Code, Codex)

Languages

Turkish native **German** C2 (Deutsches Abitur) **English** C1 **Spanish** A1

Interests

AI, home lab and self-hosting, hardware, finance, books, sport.

`Updated November 2026`