Halil Hattab

Junior Full Stack Developer

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SUMMARY

Software Engineering student and Junior Full Stack Developer with a vocational background in Information Technologies. Designed and shipped multi-tenant SaaS, corporate expense tracking and campus networking applications in the TypeScript and Node.js ecosystem, deployed on Vercel and Linux VPS (Nginx, Docker). Hands-on experience with role-based access control, REST API design, authentication, automated testing and AI integration.

WORK EXPERIENCE

Junior Software Developer, MetaWorld 09/2024 – 06/2025
Web and business application development Istanbul, Türkiye

- Deployed corporate client websites on WordPress, customized their themes and handled ongoing maintenance.
- Delivered the first version of a service tracking application for customer, appointment and record management with React, Node.js, Express.js and MySQL; this work later became the foundation of TSTS.
- Built REST API based backend services and admin panels for client-specific requirements.
- Maintained version control with Git and GitHub across collaborative projects.

PROJECTS

TSTS (Private) | Demo – Technical Service Tracking System | Next.js, TypeScript, Firebase 03/2026 – Present

- Architected a multi-tenant SaaS for service companies, isolating each company in its own workspace with invitation-only onboarding.
- Implemented 3 roles (Admin, Technician, Viewer) with a granular permission model across 16 screens covering customers, service records, archive, recoverable deletion and user administration.
- Managed application state and form validation with Zustand and Zod; built the interface with Tailwind CSS and shadcn/ui.

SLS (Private) | Demo – Health and Lifestyle Platform | Next.js, TypeScript, Firebase 07/2026 – Present

- Built dedicated management panels for 7 user roles: patient, dietitian, laboratory, restaurant, gym, organic store and administrator.
- Unified appointment, nutrition, order and finance management in a single platform backed by Cloud Functions.
- Protected sensitive health data with role-based access control (RBAC), multi-factor authentication (MFA) and security rules.

Muhasibinden | Demo – Corporate Expense Management | Next.js, Firebase, AI 04/2026

- Captained a hackathon team as software lead, unifying expense entry, manager approval, budgets and monthly reports in a single dashboard.
- Designed 3 roles (Finance, Manager, Staff), automatic conversion across 4 currencies (TRY, USD, EUR, GBP) and email notifications.
- Integrated natural language queries, anomaly detection, automated monthly reports and receipt OCR.

OpenUni | Demo – Campus Community Network | Next.js, Firestore, Vitest 03/2026 – Present

- Launched a closed network for IGU students with student email sign-in and a group, channel, post and comment hierarchy.
- Engineered two-layer account verification, a moderation queue, notification and invitation flows.
- Secured code quality with 198 automated tests: 68 unit tests and 130 security rule tests.

Namaz Aliskanligi – Habit Tracking Mobile App | React Native, Expo 05/2026 – 06/2026

- Shipped a minimal, user-friendly app for building a daily prayer habit and published 4 APK versions via GitHub Releases.

ALMS – Command Line Tool | Python, Shell, Batch 03/2026 – 04/2026

- Automated one-command access to IGU's ALMS and OBIS systems; the tool downloads course materials, lists exam dates and works offline.
- Extended support to 3 platforms (macOS, Linux, Windows), including a portable Windows build that needs no admin rights.

LEADERSHIP AND COMMUNITY

Vice President, IEEE Student Branch – Istanbul Gelisim University 2026 – Present

- Steer the branch's management, organization and strategic planning.
- Coordinate technical events, trainings and team activities.

Founder, IGU Software Community 09/2025 – Present

- Founded a C programming focused student club from scratch, teaching algorithm and programming fundamentals through hands-on sessions.
- Lead event planning, course content (C Lessons repository) and mentoring.

Team Lead, Loading (university project team) 04/2026

- Led the group behind an AI-powered accounting automation SaaS featuring receipt OCR, reporting and process optimization.

COMPETITIONS AND AWARDS

BarBer Yazılım Tech App Competition – Plaque 10/2026

- Completed the "Ads and Promotion" module of a supplier app with Expo and Firebase in a 1-hour, 3-person team competition.

Techthon 2026 – First Place 05/2026

TEKNOFEST 2026 – Advanced Autonomous Systems, Navitas Autonomous Systems 2026

- Advanced to the semi-final stage with an integrated autonomous UAV + UGV project for post-disaster logistics.
- Developed image processing and flight control modules and helped shape the system architecture.

Türkiye Innovation Week 2026 – Participant 2026

EDUCATION

B.Sc. in Software Engineering, Istanbul Gelisim University 09/2025 – 06/2029 (Expected)

Information Technologies, Sehit Binbasi Bedir Karabiyik Vocational and Technical Anatolian High School 09/2021 – 06/2025

SKILLS

Programming Languages: TypeScript, JavaScript, Python, C, Java, SQL
Frontend: React, Next.js, React Native, Expo, Tailwind CSS, Vite, HTML, CSS, Responsive Design
Backend: Node.js, Express.js, REST API, Firebase (Auth, Firestore, Storage), JWT, bcrypt, AES encryption
Databases: MySQL, Firestore
Testing: Vitest, unit testing, security rule testing
DevOps and Tools: Git, GitHub, GitLab, Linux, Nginx, Docker, Vercel
AI and Automation: OpenAI API, n8n, third-party integrations, AI-assisted development

LANGUAGES

Turkish: Native | Arabic: Native | English: Elementary (A2)

REFERENCES

Assoc. Prof. Dr. Serkan Gönen — Head of Software Engineering Department, Istanbul Gelisim University
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Res. Asst. Mehmet Ali Barışkan — Research Assistant, Computer Engineering, Istanbul Gelisim University
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