



# FURKAN SADE UCKUN

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## SUMMARY

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**Full Stack Developer** with hands-on experience in building **accessible, scalable and mobile-friendly** web applications. I specialize in **Node.js, MongoDB, FastAPI, Vue.js and WordPress**, delivering tailored software that **streamlines business workflows** - particularly in **CRM systems**. I actively contribute to both new builds and ongoing maintenance.

Currently focused on growing into a **system-oriented engineering path**, with long-term goals in **microservices, distributed systems and software architecture**.

In addition to client work, I build personal projects hosted on a **Proxmox-based home server**, including systems integrated with **NodeMCU and Arduino** microcontrollers. I manage deployment and infrastructure using **Plesk, Cloudflare and self-hosted** solutions.

## TECHNICAL SKILLS

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**Web Development:** Node.js, Vue.js, NextJS, FastAPI, Express.js, Nightwatch, Bootstrap, TailwindCSS

**Programming Languages:** JavaScript, TypeScript, Python, PHP

**Database Systems:** MySQL, MongoDB

**Other Tools:** Figma, Canva, Arduino, Self-Hosted

## EXPERIENCE

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### Full Stack Developer - Multimedia Atelier

October 2023 - Present

Independently developed and deployed internal systems — including **accounting, employee and project management** tools — using **Node.js, Symfony, Vue.js, MongoDB, MySQL, Express.js and EJS**. These solutions helped the company improve financial management, **automate daily reporting and ensure on-time payments** through notification systems, directly **reducing operational overhead**.

I led the **frontend of Accessibility-Focused Panel**, an accessibility-focused platform backed by the German government. Using Vue.js, I built the UI, improved accessibility, modularized the code and wrote **Nightwatch.js** tests.

I also took over the **Telemedicine Platform** project, improving a legacy **Laravel** codebase and integrating **Firestore** for stability and new features — despite no prior Laravel experience.

In parallel, I completed **numerous WordPress projects** under tight deadlines, customizing **Elementor, WooCommerce, Modern Events Calendar** and other plugins to deliver fast, tailored solutions.

### Backend Developer - isTechSoft Software

January 2023 - April 2023

I contributed to backend development for two major projects in the healthcare tourism and education sectors using **Node.js, Express.js** and **MongoDB**. I focused on **API design, database structuring** and building scalable backend logic. Despite the short duration, I adapted quickly and delivered results aligned with project goals.

## EDUCATION

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### Dentistry - Ondokuz Mayıs University

June 2020 - April 2022

Focused on transitioning to Computer Science and Software Development, program discontinued to pursue this path.

### Accessibility-Focused Panel

An accessibility-focused panel designed to facilitate digital accessibility for visually impaired users.

- Took full ownership of the **frontend**, using **Vue.js with TypeScript** to build a fully accessible and scalable UI.
- Improved the overall accessibility score by implementing **custom keyboard shortcuts**, focus states and tabindex logic.
- **Refactored** the frontend into a modular, maintainable structure, enabling faster onboarding for new developers.
- Developed and maintained **Nightwatch.js end-to-end tests**, **reducing overall test execution time by ~20–25%** and lowering manual QA effort significantly.

→ **My contribution directly improved usability for screen reader users and reduced frontend bugs by introducing automated test coverage.**

### Telemedicine Platform

Joined during the final 6 weeks of delivery and took over frontend/backend integration.

- **Analyzed and refactored an unstable Laravel codebase** without prior experience in the framework.
- Boosted performance by **reducing API response times by ~60%** and simplified code structure by refactoring models and functions for more efficient queries and cleaner logic.
- **Integrated Firebase** for stable backend workflows and automated **PDF generation and downloads**.
- Shipped several UX-focused features that improved form handling and responsiveness on mobile devices.
- Improved security by implementing a more **robust login/authentication mechanism**, reducing access issues and misuse.

→ **My work ensured the project was delivered on time with major bugs fixed and core flows working smoothly, despite joining at a late stage.**

### Accounting Tracking and Management System

- Developed a **full-stack application** independently, managing both **backend** and **frontend** processes.
- Designed **backend architecture** and integrated secure **APIs**.
- Created modules to simplify critical financial workflows, such as **credit card** and **loan management**.
- Implemented detailed reporting and graphical data visualization, enabling **finance teams to track credits, loans and KPIs more efficiently**, improving visibility and decision-making.
- Enhanced system performance through **database optimization** and rapid processing with **Node.js**.
- Built an **automated email notification system** that alerts users about important events such as employee **leave requests** and **upcoming domain** or **hosting expirations**.

### Project Management and Tracking System

- Independently developed a **full-stack project** using **Node.js, Express.js, MongoDB and EJS**.
- Implemented **role-based user authorization** to enhance **data security**, defining access levels for **administrators** and **employees**.
- Designed **graphical reporting features** to help users understand **project performance metrics**.
- Integrated secure **login with email verification** and user-specific access links for enhanced security.

### Stock Tracking and Management System

- Played a key role in designing and developing the project from start to finish.
- Built a secure system architecture with **Node.js** and **Express.js**, optimizing backend operations and integrating APIs.
- Designed **CRUD functions** with **MongoDB indices** to ensure database efficiency.
- Enhanced user experience by contributing to **interface design** and ensuring **mobile compatibility**.
- Visualized **stock and order data** with detailed **reports and analytics**.