



# BARAN ÇELİK

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## SUMMARY

I am a 21-year-old final-year Computer Engineering student at Alanya Alaaddin Keykubat University. My primary technical focus is on Backend Development, leveraging Node.js, ExpressJS, and PostgreSQL for scalable web applications, complemented by Junior-level Full-Stack capabilities in front-end technologies like HTML, CSS, JavaScript, EJS, and React (Basics). I also apply technical skills to Data Science projects (Python, NumPy, Scikit-learn) and possess certified Cybersecurity training. I demonstrated leadership by serving as a Team Captain in a national competition (TÜBİTAK/TEKNOFEST) and as the Founding President of the ALKÜ Water Sports and Diving Club. I am eager to apply my diverse technical and leadership skills in a challenging Junior role.

## WORK EXPERIENCE

### Backend Developer Intern & Volunteer Contributor, Morphosium Software

- Full-Stack Development: Designed and successfully deployed a full-stack, client-based administrative project using Node.js, Express.js, EJS, and MySQL/MariaDB.
- Architecture & Data Management: Organized project structure using the MVC (Model-View-Controller) pattern and established a robust data layer managed by Sequelize ORM.
- Security Implementation: Designed and implemented a comprehensive security system, including BCrypt password hashing and session-based authentication.
- DevOps & Deployment: Managed application deployment to VPS NetCup, utilizing PM2 for process management and Caddy for HTTPS installation, demonstrating server management skills.
- Quality Assurance (QA): Conducted extensive User Tests on live systems and validated API functionality using Postman, enhancing quality control processes.

## DEVELOPMENT PROJECTS

### [click for more details](#)

#### 1. Yunusemreyurdu (Custom Dormitory Management System)

Project Features: Front-end: ESJ, CSS3, JavaScript; Backend: Express.js; Admin Panel: User & content management; Authentication: Login & authorization system; Notification System: Real-time alerts via Telegram bot; Database: MySQL & PostgreSQL; Hosting: Netcup VPS.

#### 2. Baran Çelik Portfoy (with Admin Dashboard)

My portfolio website is fully developed using HTML, CSS, and JavaScript, with EJS template engine for dynamic rendering. Powered by Express and Sequelize ORM, it provides a robust backend. Hosted on a VPS, it features a dedicated admin panel that allows direct management of all content. Additionally, with Telegram API bot integration, notifications are sent in real-time. It offers a modern, functional, and easily manageable portfolio experience.

#### 3. First Express Back-End Web Site : Basic Shopping Platform

This is my first Express project: a fully functional online shopping platform. Built with HTML, CSS, JavaScript, and EJS on the frontend, and powered by Express and Sequelize ORM on the backend, it uses relational databases for product management, user authentication, and authorization. The integrated admin panel allows easy product addition and management. It delivers a modern, sleek, and functional e-commerce experience.

#### 4. Notoryum - Buy & sell uni notes

Students can sell their notes to earn money and purchase academic content from others. Additionally, users can post ads for assignments or thesis work and communicate through a personalized messaging interface.

#### 5. Noesis (Dynamic Blog and Portfolio Site)

Noesis is a dynamic blog and portfolio site built with HTML, CSS, and JavaScript, using EJS template engine and Sequelize ORM. Powered by an Express backend, it features user authentication and an admin panel, enabling easy content management and blogging. Although not live yet, it offers a modern and functional structure.

#### 6. Virtual Shopping Booth (AI/3D Foundation)

This is the foundation of the 3D Kabin project. Using 8 facial photos from different angles, an AI-generated 3D head model is created and integrated into a virtual fitting room built with Unity. The goal is to let users try clothes on their personalized avatars.

#### 7. KasliTravelAgency - Campanyf of Travel Agency

"This is the first website I created for real clients, a tourism agency website that I developed in 2024. They used it commercially for a while, and it was later renewed by another institution. Currently, I only have the source codes from the development phase."

#### 8. Ceylanlar Carpet Cleaning Website

A highly responsive and animated corporate website developed for Ceylanlar Carpet Cleaning, focusing on modern aesthetics and user experience. The site is built using HTML5, CSS3, and native JavaScript, ensuring smooth performance and cross-browser compatibility. It features numerous custom animations to enhance user engagement. The website is currently live and actively used by the client.

#### 9. Depotut.com.tr

This site, built with PHP and HTML, is designed to easily rent two storage units of different sizes. While simple in purpose, it is enhanced with a modern and aesthetic design for a better user experience.

#### 10. BceChat

BCE Chat is my first web project, a real-time messaging platform built entirely with PHP. Without using WebSockets, it delivers a live messaging experience through classic PHP techniques. Its responsive design ensures seamless use on any device, while HTML, CSS, and JavaScript provide a modern and user-friendly interface. Simple yet functional, it reflects my learning journey and offers a practical messaging experience.

## EDUCATION

### Alanya Alaaddin Keykubat University (ALKÜ)

- Major: BSc in Computer Engineering
- Focus Areas: Focused study on Data Structures, Algorithms, and System Programming, with advanced independent project work in Backend Architecture (Node.js) and Data Science applications (Computer Vision).

### Bachelor of Mechatronics Engineering with Honours

- Degree: High School Diploma
- Focus Areas: Science-oriented curriculum with high achievement in mathematics and physics; active participation in student communities and national competitions.

## TECHNICAL SKILLS & CERTIFICAS

### [click for more details](#)

#### Technical Expertise

- Backend & Frameworks: JavaScript (ES6+ / Node.js / ExpressJS), PHP, Sequelize, EJS.
- Databases: MySQL, PostgreSQL.
- Data Science Toolset: Python (NumPy, Pandas, scikit-learn, Matplotlib).
- Core Systems: HTML/CSS, Git & GitHub, Linux (Temeller).
- Design Fundamentals: Web Design, Graphic Design, UI / UX.

#### Languages

- English (B2 Level).
- Other languages (Malay, Japan) are not included as they were not confirmed in your core skill set.

#### Certifications

- Web Programming with Node.js” (Covers Express.js, MVC, Sequelize)
- Siber Vatan 2024 Cybersecurity Development Program (Includes Penetration Testing, Malware Analysis, Mobile Hacking, and Basic Linux Training).

#### Awards / Activities

- Project Leadership: Team management & Project leadership experience demonstrated through competition project management.
- Community: Founder of ALKÜ Water Sports and Diving Club.
- Other: CMAS 1-Star Diver.