

NEZİR ERDOĞAN

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I am a Computer Engineering student at Recep Tayyip Erdoğan University with a strong foundation in data structures, algorithm analysis, and system performance, developed through projects in Java, C++, and C. I have translated this theoretical background into practical engineering experience by designing scalable backend architectures, RESTful APIs, and database systems in full-stack projects such as a Student Information System (OBS) and a recipe-sharing platform. With the goal of becoming a versatile software engineer, I have gained end-to-end system integration experience through projects including an IoT-based security system (LockSense) and a campus navigation application (University Map). Additionally, I have strengthened my security-oriented mindset by contributing to phishing awareness initiatives, allowing me to approach the software development lifecycle from a cybersecurity perspective. I am highly motivated to apply my academic and personal project experience to real-world scenarios as part of a professional team, where I can continuously learn, contribute, and create meaningful value.

Proje Deneyimleri

BasicLegalCaseTracker | Java (Maven), C | Data Structures

- Developed two independent versions of the same system in Java (Maven) and C to compare language-level behavior.
- Analyzed the impact of data structures and algorithms on performance and memory usage.
- Evaluated how language- and structure-specific differences affected overall system efficiency and behavior.
- Applied performance-aware design principles with a focus on algorithmic complexity and memory management.

ExpenseSharingAmongFriends | Java (Maven), C | Data Structures

- Developed two separate implementations in Java (Maven) and C to examine efficiency differences in data structures and algorithms.
- Analyzed algorithmic approaches for expense calculation, data organization, and performance optimization.
- Gained hands-on experience in algorithmic thinking, structured data modeling, and performance analysis across multiple programming languages.
- Evaluated how implementation choices influenced runtime efficiency and overall system behavior.

NefisTarifler | Full-Stack Web Development

- Gained hands-on experience in backend architecture, RESTful API design, and database management within a full-stack web application.
- Applied a layered architecture approach to design scalable, maintainable, and sustainable application structures.
- Implemented clear separation of concerns across application layers to improve code maintainability and long-term extensibility.
- Collaborated backend logic with data persistence and API communication to support reliable application workflows.

UniversityMapNavigation | Location-Based Application

- Contributed to the development of a campus navigation application designed to simplify indoor and outdoor wayfinding.
- Utilized static location data to build structured routing and navigation logic.
- Focused on user experience (UX) considerations to improve clarity and usability of navigation flows.
- Designed clear and maintainable location-based data structures to support consistent user guidance.

Phishing Awareness Training (For Children) | Cybersecurity Awareness

- Conducted cybersecurity awareness activities focused on basic phishing attacks and safe internet usage for children.
- Designed age-appropriate educational content to explain social engineering threats in a clear and accessible manner.
- Aimed to improve digital literacy and promote security-conscious behavior among young internet users.
- Developed a security-oriented perspective on user behavior and human-centered risks within the cybersecurity domain.

LockSense-SmartInnovationIdeathon(GrandBlackSeaForum) | IoT, System Integration, Security

- Contributed to the development of an IoT-based security solution with a focus on hardware-software integration.
- Applied an event-driven system approach to analyze and manage system behavior.
- Evaluated security-oriented design considerations to improve system reliability and threat awareness.
- Gained hands-on experience in end-to-end system integration within a multidisciplinary project environment.

Student Information System (OBS) | Full-Stack Web Application React, .NET Core, PostgreSQL, JWT Authentication

- Designed and developed a scalable, web-based Student Information System with role-based access control (Admin, Committee Member, Applicant).
- Implemented JWT-based authentication and authorization mechanisms to ensure secure access control across system roles.
- Built RESTful APIs using a layered architecture, integrating data persistence with Entity Framework Core.
- Designed normalized database schemas in PostgreSQL to optimize performance, data integrity, and maintainability.
- Modeled and implemented core system workflows, including application submission, committee evaluation, and decision management processes.
- Conducted security-focused testing on authorization and access control mechanisms to identify and mitigate potential vulnerabilities.

Education

Recep Tayyip Erdoğan University B.Sc. in Computer Engineering | 2022 – Present

Skills

Technical Skills

Programming Languages:

- C, C++, Java, Node.js

Web & Backend Technologies:

- RESTful APIs, HTML5, CSS3, React

Databases:

- MySQL, PostgreSQL

DevOps & Tools:

- Docker, GitHub, GitHub Actions

Other Technologies:

- IoT Systems

Soft Skills

- Analytical thinking and problem-solving
- Strong sense of responsibility and discipline
- Ability to work effectively in team environments
- Organized and structured working approach
- Openness to learning and continuous self-improvement
- Effective communication skills

Certificates & Trainings

- Introduction to Web Services – BTK Academy
- Web Development with HTML5 – BTK Academy
- CSS Fundamentals – BTK Academy
- Embedded Systems Training with Deneyap Card – Participation Certificate
- Smart Innovation Ideathon (Grand Black Sea Forum) – Participation Certificate

Links

- LinkedIn: <https://www.linkedin.com/in/nezirerdogan/>
- GitHub: <https://github.com/NezirErdogan>
- Stack Overflow: <https://stackoverflow.com/users/28404558>