BERK ÇAKAR

Ankara, Turkey

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EDUCATION

Bilkent University   **09/2020 – 06/2024**
B.S., Computer Engineering   *Ankara, Turkey*
Currently taking courses from the sixth semester of the curriculum.

Malatya Fen Lisesi   **09/2016 – 06/2020**
High School Diploma, Mathematics and Science   *Malatya, Turkey*
Ranked among the first 0.4% in the Turkish University Entrance Exam.

COURSEWORK/SKILLS

- Data Structures & Algorithms
- Digital Design & Computer Architecture
- Object-Oriented Software Engineering
- Web Development
- Operating Systems
- System Administration
- Cloud Computing
- DevOps

EXPERIENCE

BU Software Engineering and Data Analytics Research Group (BILSEN) ↗   **01/2023 – Present**
Undergraduate Researcher   *Ankara, Turkey*
- Conducting research on **software analytics** under the supervision of Asst. Prof. Dr. Eray Tüzün at Bilkent University.

TÜRASAŞ ↗   **08/2022 – 09/2022**
Computer Engineering Intern   *Ankara, Turkey*
- Implemented a **Privileged Access Management System** for the company's internal use by combining several open-source solutions. The IT department there currently uses the system.

Jotform Inc. ↗   **06/2022 – 08/2022**
DevOps Engineering Intern   *Ankara, Turkey*
- Delivered **two projects**, named **Api-Doc** and **Uptime Dashboard**, which aimed to improve the company's **DevOps and software development** practices.
- Participated in many in-house training sessions on software development processes.

PROJECTS

ERSMS ↗ | C#, .NET, TypeScript, Angular, PostgreSQL, Docker   **09/2022 – 01/2023**
- Programmed a **web-based registration management system** for the Erasmus Exchange Programme upon the need of Bilkent University.
- ERSMS was selected as the best term project of the CS319 course for 2022-2023 Fall semester, among 25 other projects.

Api-Doc | PHP, Twig, jQuery   **07/2022 – 08/2022**
- Created a new **documentation generator** for Jotform API Endpoints, which does not depend on handwritten "doc comments".
- Api-Doc parses the undocumented API endpoints in a project directory and generates **HTML-based documentation pages** for them.

Uptime Dashboard | Python, Django, Celery, Redis, RabbitMQ, MySQL, Docker   **06/2022 – 08/2022**
- Developed a **web application** for Jotform Inc., which allows DevOps Engineers to **monitor and track the uptime status of remote servers**. In case of a server outage, the application sends **notifications** to the responsible DevOps Engineers.

friBot ↗ | C++, JSON, SQLite   **08/2021 – 09/2021**
- Designed a *Discord* 💬 chatbot that can **do auto-moderation**, **perform media uploads to the cloud** and **guess the approximate ranking to be obtained in the Turkish University Entrance Exam** based on the number of correct and incorrect questions solved.

[LabConnect](#) ↗ | Java, Spring, React, Redis, MongoDB, Docker **02/2021 – 05/2021**
- Built a **web application** that aims to assist CS introductory courses in organization and communication.
- Students who have completed their labs or homework assignments upload their work to the LabConnect system, and **LabConnect tests the uploaded code using pre-defined unit tests** determined by the teaching assistant or instructor.

[Data Transmission to Terminals on Local Network](#) | Pascal, TCP/UDP **12/2016 – 03/2017**
- Researched that fast and secure data transmission can be made to a large number of computers using UDP or TCP protocols. **Achieved a speed increase up to hundreds of times more than the Unicast transmission with this project.**
- Entitled to participate in the TÜBİTAK Regional Competition in 2017 with this project.
- [Project report here (*in Turkish*) ↗](#)

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Java, Swift, JavaScript, PHP, Pascal, SystemVerilog, Bash, SQL
Developer Tools: Visual Studio Code, XCode, GNU Emacs, DBeaver, IntelliJ IDEA Ultimate, Figma
Technologies/Frameworks: GNU/Linux, macOS, Git, .NET, Spring, jQuery, React, Angular, Vue.js,
Docker, Ansible, Jenkins, ELK Stack, Sentry, Azure, AWS

SOFT SKILLS

- Management and Leadership
- Conflict Resolution
- Communication
- Problem Solving
- Teamwork
- Efficiency
- Decisiveness
- Adaptability
- Critical Thinking
- Professionalism

EXTRACURRICULAR

Microsoft Learn **07/2021 – Present**
Student Ambassador
- Attended various workshops and training events on *Microsoft* products and related technologies.

Pisi GNU/Linux **04/2021 – Present**
Development Volunteer
- Contributed to the development of the Linux-based operating system *Pisi GNU/Linux*, which is the successor of the Pardus 2011 version.
- Carried out various responsibilities, including adapting new desktop environments to the OS, improving OS initialization and authentication system, detecting bugs in the parts of the OS which inherited from old Pardus and modernizing them if necessary, and so forth.

CERTIFICATIONS

- DevOps Foundations ↗
- Technical Support Fundamentals ↗
- DenizBank DenizAşırı Online Internship Program ↗
- Learning Ansible ↗
- The Fundamentals of Digital Marketing ↗
- Learning Vue.js ↗