

Parsa Keihan

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EDUCATION

Ankara, Turkey	Bilkent University	September 2020 – June 2024
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Major: Computer Science, B.S.E – 60% scholarship
Programming Coursework: Algorithms & Programming, Computer Science Structures, Digital Design, Computer Organization, OOP Software Development, Database Systems, Operating Systems, Computer Graphics, Bioinformatics

CERTIFICATIONS

IELTS: 7.0
SAT Mathematics: 790/800
GRE: 300

EMPLOYMENT

SabancıDx	July - September 2023
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Assistant General Manager of Advanced Data Analytics, Intern

Text2Test

AI-based test automation application: From natural language descriptions to executable test cases

- Started with market analysis for business analytics and delivered a detailed competitive analysis presentation together with data collected from other companies, such as pricing models and technologies integrations.
- Prepared test cases in English and Turkish for prompt engineering process and analyzed the data collected in JSON format using BDD methodology.
- Trained AI model using Python and GPT4 technologies to analyze the behavior of various websites.
- Analyzed the AI data with transfer models and NLP AI technologies. Also, used transformer neural network to learn context and understanding through sequential data analysis.
- Coded the front end of the application's website using the Vue.js framework and Git technologies for teamwork.
- Integrated the generated AI with backend and frontend code.
- Leveraged knowledge in Data Analysis, Prompt Engineering, and Full-stack Development.

Borusan Lojistik	July - August 2022
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Software Development, Intern

ATLAS and E-commerce

- Made software improvements to Borusan Lojistik Internal Transportation Application (ATLAS).
- Prepared user interface for 4 transport models: road, air, sea, and rail.
- Debugged user-based and system-based errors occurring on ATLAS, which is an e-commerce platform.
- Individually prepared an external e-commerce template to be used later by the company as a mockup for selling and buying different items as a full-stack developer.
- TypeScript, .Net framework, JavaScript, C#, HTML, CSS, Bootstrap, and Angular used together with Rija, ASP.NET Web API, Microsoft SQL, and Postman technologies.
- Attended meetings such as sprint planning, daily and retro with the team.
- Studied the projects that are evaluated every quarter coming from the strategy, the improvements, customer demands from the operational users, and the errors that occur during use.
- Leveraged knowledge in Database Systems and Full-stack Web Development.

Legaling (start-up)	November 2021 - February 2022
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Web Development, Intern

legaling.net

- Designed and implemented the front-end code of the Legaling website.
 - Debugged and maintained the website for one month after the first release.
 - Added new terms both in English and Turkish to the database each week by updating the SQL tables in the backend.
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Research, Intern

- Researched and studied Java as my first programming language for CS102 course projects together with a computer engineer.

SOFTWARE PROJECTS

Personal Website: <https://parsa23k.github.io>

- Generated a basic personal website using raw HTML and CSS.
- Published live on GitHub live database

BNBilkent: <https://github.com/Parsa23k/BNBilkent>

BNBilkent is a Room / Flat Rental Web Application that comprises a database system, and it is used to publish and rent accommodations around Turkey.

- Designed UML diagrams for the best OOP implementation and provided UI mockup designs together with other team members.
- Created the common pages: Login, Register, ResetPassword.
- Contributed to Homeowner and Traveler pages. Used Axios, CSS, HTML, and javascript technologies to provide frontend codes.
- Created modal pop-ups such as features, reviews, side-menu, payment methods and filter.
- Contributed to connecting the backend with the frontend using Axios calls by providing appropriate data structures and handling them.
- Installed React Router infrastructure for navigation.
- General debugging and fixing.
- Contributed to modifying and creating advanced database queries, database features, and tables.

Bilasmus: <https://github.com/Parsa23k/Bilasmus>

Bilasmus is a web-based project to help both Bilkent University students, and faculty members during Erasmus and exchange programs. The program's main goal is to minimize paperwork as much as possible, and ease the communication between students and faculty members.

- Wrote the Performance and Usability parts of Non-functional Requirements.
- Wrote the Subsystem Decomposition section and drew the 3-Layer Architecture Diagram.
- Draw Activity, State, and Sequence Diagrams.
- Made fixes in Use-Case and Class Diagram.
- Draw the sketch of Help, Messaging, Outgoing student's Language Proficiency page, Coordinator's course transfer forms Page, and international Student Office's language proficiency page illustrations for UI Design.
- Designed User Interface Management Layer.
- Created UI of the pages of Log-in, Register, Reset Password, Admin, Department Secretary, and Instructor using Bootstrap Studio.
- Wrote JavaScript Codes for Log-in, Register, Reset Password, Admin, and Incoming students.
- Wrote and modified CSS and HTML Codes for Log-in, Register, Reset Password, Admin, and Incoming students.
- Integrated backend and frontend.
- Prepared the user guide of the application.

MANAGEZILLA

Activity Programmer - Activity Summarizer for Personal Time Management.

- Designed and prepared the mockup for the windows application.
- Implemented the database of the program on a txt file.
- Used Java and JavaFX for full-stack development.
- Provided GUI for user using MVC knowledge.

Spoil'nt: <https://github.com/Parsa23k/Spoil-nt>

The desktop application Spoil'nt aims to decrease food waste by creating a platform for markets to offer items with close expiration dates to their customers for free.

- Implemented the model classes to make a general structure of the Spoil'nt.
- Worked on an inner-program database to store the data needed in a txt file.
- Gained experience in fxml, JavaFX and creating new databases.
- Designed the customer side GUI of the program.
- Connected the controller and view classed together with model classes.

Borusan Case: <https://github.com/Parsa23k/BorusanCase>

This case is a basic e-commerce logistics platform to check and update the status of different items and users.

- The entire project is done by myself.
- Used C#, MVC and DTO technologies to provide the safe data transfer from backend to frontend code.
- Implemented the frontend code using javascript and typescript, HTML and CSS.
- Presented the final product to the supervisor and other team members to be accepted for the internship.

SKILLS

Software: Java, Python, C++, C, C#, R, JavaScript, TypeScript, Bootstrap, Postman, Django, Rija, Angular, Vue.js, HTML, CSS, SCSS, SQL Database, ASP .NET Core, ASP .NET Web API, Assembly-MIPS, System Verilog, Data Structures, UML Designing, MVC (Model-View-Controller), OOP (Object Oriented Programming), Git and GitHub, React, Spring Framework, JetBrains, VS (code), Eclipse, Full-stack development, Product Development, App development, Web development, Game development, Data analyzing, Prompt Engineering, Machine learning, Big Data, Database management, PowerPoint, Word, Excel, UI UX design.

LANGUAGE

Persian (Farsi): native proficiency

Turkish: native proficiency

English: Fluent

RESEARCH EXPERIENCE

JULY 2023 - PRESENT

Undergraduate Volunteer at Alkanlab. Researching in Bioinformatic Pangenome field and working on DNA sequence analyzing and read mapping for benchmarking process together with PhD student Zülal Bingöl.

MEMBERSHIPS

IT committee Head - TedxBilkent

- Website development and social media management, October 2023 - Present
- <https://www.tedxbilkent.com>

Volunteer and social media manager, Social Awareness Projects

- Education for the Visually Impaired Project, June 2021 – Present

Active member - Young Entrepreneurs Society (YES)

- Corporate Relations and marketing, October 2020 - October 2022

Bilkent Men Volleyball Team

- Active player

HOBBIES

- Volleyball (7 years)
- Santoor (6 years) – Flute (15 years) – Piano (1 year)
- Personal programming exercise
- Social Engineering (social media based)

REFERENCES

- Dr. Eray Tüzün ([Google Scholar](#))

Professor at Bilkent University

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