

# Efe Alpay

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## EDUCATION

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**Brown University**  
*Computer Science and Economics*  
GPA: 3.867

**Providence, Rhode Island, USA**  
*August 2022 - May 2026 (Ongoing)*

## TECHNICAL SKILLS

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**Programming Languages:** Python, C, C++, Java, Javascript, Typescript, HTML, CSS

**Libraries and Tools:** Pytorch, Pandas, Scikit-learn, Numpy, Moshi, Guava, Junit testing, GDB debugger, Firebase, Git, Docker, Node.js, React, Stata

**Related Coursework:** Introduction to OOP, Program Design with Data Structures and Algorithms, Introduction to Software Engineering, Computer Systems Fundamentals, Foundations in AI, Applied Research Methods, Statistical Inference, Introduction to Discrete Structures and Probability, Multivariable Calculus, Linear Algebra

## WORK EXPERIENCE

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### Summer Internship

*Microsoft, Istanbul, Turkey*

*June 2024 - July 2024*

- Worked under Microsoft's Turkey branch to create an LSTM model to predict future stock prices of several companies using PyTorch.
- Collaborated with peers to tackle issues surrounding overfitting for our model through algorithmic and manual hyperparameter tuning and stable seed selection.
- Gained valuable experience in visualizing large chunks of data and model performance with pandas

### Internship

*Chippin, Istanbul, Turkey*

*June 2019 - July 2019*

- Learned to use ML & AI techniques as a way to analyze customer behaviours and patterns.
- Got introductory knowledge on R and javascript in context of analyzing customer data.
- Attended meetings to gain valuable insight on customer relations and teamwork.

### Internship

*Gelecekhane, Istanbul, Turkey*

*June 2018 - July 2018*

- Assisted in the development of an AI based program that aimed to take an audio file of a meeting and transition it into a summary of what has been talked about.
- Attended meetings with members of the company regarding business strategy and product design.
- Aided in website design and gained valuable insight into the inner workings of the deployment of an AI model in the real world.

## PROJECTS AND RELATED ACTIVITIES

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- **2023-Brown University Meik Program Website**, As part of our month-long final project for our Software Engineering class at Brown me and 3 other students coded a full-stack website for Brown's Meiklejohn program to be deployed in the near future.
- **2022-Othello Game with AI Implementation**, Freshman year of college, I coded the game Othello in Java. For this project, I employed the minimax algorithm to implement a range of game modes, enabling users to engage with progressively challenging artificial intelligence opponents.
- **2021-Teams Engineering Competition 1st Place in Turkey on the Essay Section**, Me and a group of other students formed a group to compete in the Teams Engineering Competition during our junior year of high school. Through our collaborative efforts, we achieved first place in the essay portion of the competition.

## EXTRACURRICULAR ACTIVITIES

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- **Team Member** in Brown University Mens Fencing Team - Since September 2023
- **Executive member** in Robert College Istanbul's TedXRC club - September 2017 - September 2020