# Yunus Kocaman

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## Education

**Brandeis University** Waltham, PA

*Bachelor of Science in Computer Science* *Aug. 2022 – May 2026*

**Coursework:**

*Data Structures and Algorithms, Object Oriented Programming, Fundamentals of Software Engineering, Operating Systems, Intro to Machine Learning, Intro to Computer Security, Intro to Probability and Statistics, Calculus, Linear Algebra, Discrete Structures, Natural Language Processing, Embedded Systems,*

## Experience

**Civic and Community Engagement** Sep. 2022 – Present

*Boston Education and Counseling/Youth Mentor* *Revere, MA*

- **Mentored and Supervised 30+ Students:** Provide weekly academic, social, and spiritual guidance to middle and high school students (grades 6–12), ensuring comprehensive support.
- **Led a group of 7 Mentors:** Manage and mentor a team of five, equipping them with effective strategies to support student development.
- **Facilitated 15+ Youth Retreats:** Organized and led 7–10 day retreats focused on personal growth, leadership, and mentorship training.

## Projects

**YumJunction** | *JavaScript, CSS, HTML, React, Azure Services, Docker* Jan. 2024 – May 2024

* Led a team of students in developing a full-stack web recipe application using React
* Experimented with different developmental and branching strategies using GitHub
* Created a back-end server that stores recipes API and the website front-end
* Users can add their recipes to the website
* Deployed and maintained personal website utilizing Azure cloud services for seamless online accessibility, automated deployment, and alerting

**Unix Shell Simulator** | *Java, Multithreading, Concurrency, Thread Synchronization* Aug. 2024 – Jan. 2025

* Developed a Unix-like shell with a fully functional Read-Eval-Print Loop (REPL) supporting essential shell commands (pwd, ls, cd, cat, grep, wc, etc.).
* Experimented with different developmental and branching strategies using GitHub
* Implemented the Pipes and Filters architecture to support command chaining (— operator), enabling seamless data flow between commands.
* Enhanced shell capabilities with error handling, ensuring robust input validation and appropriate system responses for incorrect commands.
* Optimized command execution by efficiently parsing and handling user inputs while adhering to Unix shell conventions.

**Fraud Detection** | *Python, Pandas, Numpy, Scikit-learn,* March 2024

* Built a machine learning model for detecting fraud bank transactions
* Tuned the dataset using various methods; one-hot-encoding, label encoding, standardization
* Trained multiple models using tuned data and evaluated their performance by determining the best model based on the F1 score

## Technical Skills

**Languages**: Java, Python, MicroPython, C, JavaScript, HTML/CSS
**Frameworks**: React, Node.js, Flask, JUnit,
**Developer Tools**: Git, Docker, Azure Services, Flask, Kali Linux
**Libraries**: pandas, NumPy, Matplotlib, Scikit-learn