

Shadi Soufan

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EDUCATION

Brown University

Providence, Rhode Island

Sc.B. in Computer Science (GPA: 3.8)

Graduation Date: May 2026

- **Courses:** Data Structures & Algorithms, Object-Oriented Programming, Software Engineering

EXPERIENCE

Brown Office of Information Technology

October 2023 - Present

Student Data Technician

Providence, Rhode Island

- Utilize Python scripts to automate access modifications for **130+** Brown applications, streamlining user permissions and authentication processes for over **10,000** students and staff
- Significantly reduce manual intervention by developing **15** script methods, enhancing operational efficiency by minimizing errors and saving time in access management tasks

FinTech @ Brown

September 2022 - Present

Technology Team

Providence, Rhode Island

- Advance the club's digital presence by developing software, including website improvements and creating technical components for workshops (*React.js*)

PROJECTS

Brown Bites (*Java, TypeScript, React.js*)

2023

- Codeveloped a full-stack application utilizing Java, TypeScript, and React.js to generate personalized weekly meal plans based on **500+** Brown dining hall items
- Accommodated dietary preferences and calorie restrictions to deliver tailored meal suggestions
- Integrated a user-friendly interface, incorporating a forum section that fosters engagement and user interaction, enhancing the overall user experience and promoting a sense of community

Search Engine Clone (*Python*)

2023

- Implemented a PageRank algorithm using regular expression matching and matrix multiplication to return XML wiki results that most closely resemble a user's query
- Calculated term frequency and inverse document frequency for **400,000** terms in hyperlink-based wiki documents stored in XML files

ChatGPT Discord Bot (*JavaScript, Node.js, OpenAI API, Discord API*)

2023

- Developed a Discord bot utilizing the Discord and OpenAI APIs, implementing a multi-channel system allowing seamless interaction with users across various Discord channels simultaneously
- Designed and implemented real-time conversation handling, automated responses, and natural language understanding, resulting in improved accessibility and user satisfaction

Billboard Top 100 Playlist Creator (*Python, Spotify API, Beautiful Soup*)

2023

- Leveraged Spotify's API and Beautiful Soup to dynamically curate personalized Spotify playlists featuring the Billboard Hot 100 songs from a user-specified date

TECHNICAL SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, TypeScript, SQL

Software/Technology: Git, React.js, Node.js, Web APIs, Apache Maven, Playwright, Agile Methodology

Skills: Object-Oriented Programming, J-Unit Testing, Fluent in **English & Arabic** (Speak, Read, Write)