

Shadi Soufan

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EDUCATION

Brown University **Providence, Rhode Island**
Sc.B. in Computer Science (GPA: 3.83) *Graduation Date: May 2026*

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

EXPERIENCE

Computing Accounts Data Student Technician **October 2023 - Present**
Brown Office of Information Technology *Providence, Rhode Island*

- Develop process improvements for bulk data modifications, using Python scripts for automation
- Monitor and document changes in user data through a custom web application and database, adeptly identifying and resolving any discrepancies between data sets

First-Generation Fellow **September 2023 - Present**
Capital One *McLean, Virginia*

- Collaborate closely with Capital One software engineers to gain insights and experience in the technology industry (*Java*)
- Emphasize professional and personal growth across financial well-being, personal wellness, and career readiness alongside a cohort of other first-generation students

Technology Team **September 2022 - Present**
FinTech @ Brown *Providence, Rhode Island*

- Advance the club's digital presence by developing software, including website improvements and creating technical components for workshops (*React, HTML, CSS*)
- Facilitate the development of a financial technology community on Brown's campus, including FinTech @ Brown's 50+ members

PROJECTS

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 **thousands** of 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 Top 100 songs from a user-specified date

TECHNICAL SKILLS

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

Software/Technology: Git | GitHub | React | Node.js | Web APIs | IntelliJ IDEA | Visual Studio | Maven

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