

Karim Ben-Romdhane

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Education

Boston University

Boston, MA

Bachelor of Arts in Mathematics & Computer Science; **GPA: 3.12**

Aug. 2020 – May 2024

- Relevant Coursework: Distributed Systems, Artificial Intelligence, Machine Learning, Concepts of Programming Languages, Optimization Methods of Operations Research, Stochastic Methods of Operations Research

Work Experience

Operations Manager | Public Interest Technology Program

Mar. 2022 – Feb. 2023

BU Spark!

Boston, MA

- Led operational planning for events, optimizing workflows for hackathons and workshops.
- Applied data-driven insights to enhance event productivity and participation metrics.
- Deployed technical solutions to improve process quality, compliance, and communication.
- Streamlined communication channels, optimizing workflows for university club events.
- Co-developed and maintained Tech for Change website to support university chapter needs.
- Coordinated with stakeholders to align initiatives, boosting cross-institution collaboration.

Junior Tire Data Engineer Intern

May 2022 – Aug. 2022

Cognizant (Aston Martin Formula 1 Team Project)

Remote

- Developed scalable ML systems to enhance real-time tire performance data processing.
- Reduced model runtime by approximately 15% by optimizing algorithms for faster data integration.
- Integrated multiple data inputs (track, friction, weather) to boost model precision.
- Tuned model parameters to improve data accuracy and consistency across analyses.
- Used Python and Julia for statistical analysis, uncovering patterns and anomalies.
- Presented insights to engineering team, supporting data-driven race strategies.

Leadership Experience

President

Oct. 2020 – Dec. 2022

BU CS Connect

Boston, MA

- Led a team of 6 officers, fostering collaboration and effective communication with university officials and stakeholders to support club growth.
- Expanded membership and enhanced engagement by organizing an alumni mentorship program, guest lectures, and event offerings.
- Developed partnerships with local tech companies for workshops and networking opportunities.
- Coordinated events and initiatives, balancing daily operations with strategic goals, and used member feedback to guide club activities and resources.

Technical Skills

Programming Languages: Python, C, C++, OCaml, Julia, MATLAB, PostgreSQL

Frameworks and Tools: Django, Git, Docker

Data Analysis: Pandas, Matplotlib, Tableau, Data wrangling, Visualization

Project Management Tools: Jira, Asana, Trello

Methodologies: Agile development, user-centered design principles

Operating Systems: Windows, macOS, Linux (Ubuntu, RHEL)

Other Skills: Technical documentation, team collaboration