Reda Boutayeb

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EDUCATION

Worcester Polytechnic Institute | *Bachelor of Science – Computer Science*　　　　　　　*Worcester, MA* | **May 2025**
- Cumulative **GPA**: 3.91/4.00
- **Relevant Coursework:** Object-Oriented Design Concepts, Systems Programming Concepts, Algorithms, Social Implications of Information Processing, Software Engineering, Discrete Mathematics, Software Security Engineering

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WORK EXPERIENCE

Capgemini | *Software Engineering Intern*　　　　　　　*Los Angeles, CA* | **06/2024 – 08/2024**
- Developed and documented REST APIs using Java Spring Boot, and deployed API functions with AWS Lambda and API Gateway to enhance connectivity with deprecated Java interfaces.
- Utilized Agile methodologies for project management, conducting thorough testing and bug reporting with JIRA, and implementing Domain-Driven Design principles using layered architecture for clean code organization.
- Applied knowledge of cloud application architectures, leveraging Git for version control and tools like Spring Web, Lombok, and Maven, deploying scalable solutions to AWS.

Schneider Electric | *Digital Risk Analyst Intern*　　　　　　　*Boston, MA* | **06/2023 – 06/2024**
- Created a Python program with Pandas to fetch user data via an API, reducing unauthorized software by 78% through proactive notifications.
- Built a Python app with Flask, SQLAlchemy, and Pandas, using an algorithm to match 40+ interns by interests, boosting engagement and networking.
- Enhanced digital safety by mitigating risks, conducting risk assessments, and implementing security protocols.

PROJECTS & LEADERSHIP EXPERIENCE

WhyDate? – College Student Friend/Dating App| *iOS Developer*　　　　　　　*Los Angeles, CA* | **07/2024 – Present**
- Developed an iOS application using Swift and SwiftUI, implementing features like real-time chat, profile creation, custom animations, personalized questionnaire, matching, to enhance user engagement and experience.
- Coordinated beta testing with over 40 students via TestFlight, utilizing their feedback to refine the app's functionality and user interface ahead of its App Store launch.
- Integrated third-party APIs such as Firebase, Cloud Functions, APN, and employed Core Data for efficient local data management.

Kiosk Web App for Brigham & Women's Hospital | *Lead Software Engineer*　　　　　　　*Boston, MA* | **01/2024 – 03/2024**
- Designed and implemented advanced pathfinding features using A*, Dijkstra, and DFS algorithms for efficient navigation within the hospital, support for multi-floor directions (vertical edges).
- Developed robust database solutions by enabling the upload and export of graph nodes from a PostgreSQL database, facilitating seamless integration and data management for the hospital's navigation system.
- Led the full-stack development with a team of 9 talented students using agile methodology, contributing to both front-end and back-end components, and ensuring reliable multi-floor navigation on the front-end.

SKILLS & INTERESTS

- **Programming Languages:** Python, Swift, Java, C/C++, HTML, CSS, JavaScript
- **Libraries and Frameworks:** Spring Boot, SwiftUI, React, Angular, Flask, Node.js, Docker
- **Development Tools:** VS Code, Xcode, IntelliJ, Spring Tool Suite, PyCharm, Git, Github, CLI
- **Databases:** MySQL, PostgreSQL, Firebase Storage, Cloud Firestore
- **Soft Skills:** Leadership, Communication, Problem Solving, Collaboration, Adaptability, Critical Thinking, Creativity
- **Interests:** Assembling Desktops, Playing Soccer, AI, Innovative Tech Products, Electric Cars