

# 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.

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## PROJECTS & LEADERSHIP EXPERIENCE

**WhyDate? – College Student Dating App** | *iOS Developer (Swift, SwiftUI, Firebase)*

Los Angeles, CA | **07/2024 – Present**

- Engineered a unique solution to online dating for college students, ensuring safety and exclusivity through authentication with @college.edu email addresses.
- Replaced the traditional “first impression” model with a compatibility-based questionnaire powered by Meta’s open-source LLM (Llama3).
- Facilitated anonymous matching of students, ensuring privacy until both users decide to reveal their identities.

**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.

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## SKILLS & INTERESTS

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