MARWA BOUABID

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About me: As one of the first students from my high school to attend a US university and one of two Moroccans to attend my college, I guided myself through the admission process, independently studying English and preparing for admission exams. I speak 5 languages, have studied in a new country, did exams in my third language, learned how to navigate a new culture and bureaucracy, found new ways to make connections, advanced my career without a network, and worked part-time to support myself

EDUCATION

Mount Holyoke College   **South Hadley, MA**
B.A. Computer Science and Mathematics   *August 2019 – December 2024*
- **Relevant Courses:** Data Structures, OOP, Calculus III, Discrete Mathematics, Linear Algebra, Software Design and Development, Computer Systems, Operating Systems, Algorithms, Real Analysis, Computer Networking
  Honors: Gina Jacobsen Prize for Excellence in Mathematics, NSF award for Summer REU on Artificial Intelligence for Computational Creativity at Brown University

PROFESSIONAL EXPERIENCE

Brown University   **Providence, RI**
AI and VR Researcher (See on GitHub)   *January 2022 – August 2022*
- Selected by Google to build 3D tools and virtual settings to improve visual experiences for visually impaired people in contact with art in a VR museum, making arts education accessible to all regardless of physical limitations or disabilities
- Ranked 3rd amongst all projects at the Brown University Undergraduate Research Symposium
- Trained and designed a model using the MS-COCO dataset to generate real-time image-captioning of art pieces

Valence Vibrations   **Los Angeles, CA**
Mobile and IOS developer (See on App Store)   *May 2021 – August 2021*
- Developed iOS Valence Vibrations App using Swift as the leader of a team of 6, equipping 1000+ neurodivergent people with tools to augment emotional perception through a haptic wristband
- Built and maintained the database on FireBase

Mount Holyoke College   **South Hadley, MA**
Linear Algebra Teaching Assistant, Computer Science Mentor & Tutor   *November 2020 - May 2023*
- Responsible for holding 2 to 3 office hours to answer student questions about a chapter or to help them with challenging homework, helping 100+ students succeed despite the challenges the COVID-19 pandemic
- Guided 10 Computer Science students daily on issues with homework, managing workload, approaching assignments, selecting CS courses, declaring a major, doing research, finding jobs/internships
- Mastered all the necessary material required for the grading of 90 homework and 18 quizzes weekly for an upper-level course, Linear Algebra, increasing feedback speed for students by 95%

PROJECTS & OUTSIDE EXPERIENCE

Project Manager - Click App
See Presentation
- Developed my own sports matching app including front (Node.js and Express) and back-end (NoSQL, MongoDB & Mongoose)
- Optimized the system using a CDN, configured my domain, introduced a Redis cache for fast search results
- Deployed instances locally using Kubernetes and Docker
- Re-targetted acquired users with login (OAUTH2) and subscription methods (MailChimp)
- Tracked data with Google Analytics

ACTIVITIES & LEADERSHIP

Mount Holyoke College   **South Hadley, MA**
Class board social chair elected   *September 2021 –May 2023*
- Managed teams in charge of the planning and implementation of all aspects of class social events such as a mentorship program for 800 admitted students and Junior Show gathering more than 2,000 students
- Created content for all class social media channels including but not limited to Class Facebook Group, Instagram, Twitter accounts, etc.

Mount Holyoke College
Horseback Riding Program
- *See my feature*

SKILLS & INTERESTS

Skills: Python, Java, C, SQL, VS Code, agile methodologies, blender. See my project in C.
Interests: Cooking, animal welfare, inclusion in tech spaces, reading
Languages: French (native), Moroccan Arabic (native), MSA (native), English (fluent), Spanish (intermediate)