CHAIMAE MRABET

Software Developer

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Summary

Detail-oriented software developer with strong programming skills and a proven track record in utilizing analytical and problem-solving abilities to drive project success. Proficient in data analysis and leveraging computational tools to extract insights from complex datasets. Adept at designing and implementing user-friendly interfaces and integrating new technologies. A collaborative team player who values diverse perspectives and adapts quickly to evolving environments and technological advancements.

Education

Diploma in Sofware Development   Expected 2024
42 Abu Dhabi coding school

Bachelor of Science in Physics   Graduated 2023

Khalifa University
- Graduated with Honors | Member of the golden key honor society – President list | GPA: 3.63

Experience

42 Abu Dhabi Coding School   June 2023 - Current
- Coded various programs using languages such as Python, C and C++ for efficiency and readability.
- Developed command-line parsing functionality to interpret user commands in Minishell.
- Applied knowledge of networking protocols to establish communication between IRC clients and servers.
- Utilized version control systems like Git for collaborative development and code management.
- Collaborated with peers on numerous projects, contributing insights and actively listening to others' perspectives.
- Prioritized tasks met deadlines consistently and adapted quickly to changing project requirements.
- Demonstrated flexibility by successfully adjusting to new environments and learning recent technologies.

AI Bootcamp Trainer (for Students Aged 14-18)   August 2024 – October 2024

Department of Education and Knowledge – ADEK
- Delivered engaging training sessions on AI and generative AI to students from diverse backgrounds.
- Guided students in using a variety of AI tools, fostering hands-on learning.
- Facilitated discussions on emerging AI topics, helping students prepare for an AI-driven future.

Khalifa University   August 2022 - May2023
- Senior Project - Individual Research: **"Functional role of DNA spatial Organization"**
  - Analyzed chromatin spatial organization and gene expression data using computational tools.
  - Developed scripts in C to process gene expression data, calculate correlation coefficients, and analyze co-expression patterns.

- - Implemented an RNA-seq pipeline (data retrieval, preprocessing, mapping, quantification) using SRA-Toolkit and RSEM.
- Undergraduate Research: **"Electron Microscopy in the Age of Big Data"**
  - Processed and analyzed electron microscopy data using Gatan DigitalMicrograph, with custom Python scripts for high-resolution imaging and material property measurement.
  - Implemented multi-dimensional data analysis in Python using Hyperspy for stress analysis with Young's modulus and strain maps.
  - Applied advanced strain mapping techniques to assess deformation and strain distribution in materials using Python.

Part-Time CTL (Center for Teaching and Learning) Assistant   August 2022 - May2023
Khalifa University

- Collaborated with the CTL team in planning and organizing events related to teaching and learning
- Formulated effective strategies as a mentor and tutor for teaching students with diverse learning styles and abilities
- Assisted in various administrative tasks and supported the team during workshops and seminars
- Organized student performances and enrichment activities to facilitate learning
- Analyzed student performance data to create school improvement plans
- Advised students on course selection and career decision issues as a student mentor.

Internship Student   July 2022 - September 2022
Khalifa University

- Actively engaged in workshops, activities, and practical projects to apply learned skills
- Worked both independently and within a team environment with focus and high attention to detail
- Provided academic support through tutoring for freshman students, fostering a conducive learning environment
- Contributed to the organization and preparation of the 'Ro'ya Program,' a high school summer camp, enriching the educational experience for participants
- Developed strategies and materials tailored for calculus 1 students, resulting in improved academic outcomes
- Created a user manual for the Thesis Management System (TMS), facilitating smoother operations for faculty and students
- Obtained certifications in Social and Emotional Learning (SEL) and the 7 Habits of Highly Effective People, enriching personal and professional development.

Part-Time Registration Office Assistant
Khalifa University

- Assisted students with registration-related inquiries and ensured smooth operation of the registration process

Side projects

POS Application (React & Django)

- Developed and designed a user-friendly POS system with a focus on UI/UX using Figma and frontend development with React, HTML, and CSS, contributing to features like session management and payment processing, while collaborating with backend development and planning for future AI integration.

Skills

- Programming Languages: C, C++, Python, LabVIEW, Simulink/Matlab, React & Django
- Data Analysis and Visualization
- Problem-Solving
- Team Collaboration

- Analytical Thinking
- Project Management
- Attention to Detail
- Adaptability and Flexibility
- Fast Learner

Certificates

- Data Analytics Fundamentals – IBM SkillsBuild 2024
- Expanding SEL (Social and Emotional learning) Coursera 2022

- **LinkedIn Learning Certifications (2022):**
  - Critical Thinking & Problem Solving
  - Leadership Presence
  - Strategic and Thinking

Awards

Experiential Learning Symposium 2022 - 3rd place winner

Khalifa University

- Presented my transformative learning experiences at the symposium, highlighting personal growth inspirations and influences.
- Explored a specific area that deeply resonated with me, delving into how this experience changed my perspectives and thoughts.

MATLAB Hackathon 2023 - Best Data team

Khalifa University

- Employed AI techniques to analyze complex data focused on "Climate Change (Sustainability)" and address a regression problem during the hackathon.
- Developed a predictive model using MATLAB Coding and AI algorithms to forecast future values with precision.