

MARIAM ELSAHHAR

Abu Dhabi, UAE

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Education

42 Abu Dhabi

Diploma in Software Development

Abu Dhabi, UAE

Oct 2022 – Present

New York University

Bachelor of Science in Biology, Minors in Computer Science, and Applied Math. GPA: 3.3

Abu Dhabi, UAE

Sep 2018 – May 2022

Experience

JLC Productions

Marketing and Communications Executive

Abu Dhabi, UAE

Sep 2023 – Present

- Manage relationships with 40+ clients to translate strategic awareness, fundraising, and community goals into events.
- Liaise between stakeholders, designers, volunteer leaders, and logistics teams for event delivery, maintaining 90% attendee and client satisfaction rates.
- Utilize **Python** and **AppleScript** ([repository](#)) to automate data analysis, spreadsheet manipulation, and branded material generation, saving 15 hours of manual workload per event.

Plug and Play Abu Dhabi

HealthTech Marketing and Operations

Abu Dhabi, UAE

Nov 2022 – Sep 2023

- Developed a **JavaScript** budget calculator ([repository](#)) and designed a resource directory with 70% team adoption rate.
- Streamlined project planning and team communications by setting up Monday and Slack automations and dashboards, cutting 4 hours of weekly team meetings.
- Conducted analyses of marketing campaigns using **HubSpot CRM** to audit and enhance marketing efforts, increasing interactions by 125% and organic impressions by 90% within 3 months.
- Maintained 90 Net Promoter Score by leading branding, marketing, and event logistics and contributing to content and event design for corporate workshops, hackathons, and startup events.
- Negotiated successful barter deals for external startup events, informed by lead generation and brand visibility goals.

Projects

Best Buddies UAE 🤝 🌐 | *React.js, HTML, CSS, PHP, SQL, Git*

Nov 2023

- Developed a website in **React.js**, **HTML**, and **CSS** for an NGO fostering social inclusion for People of Determination.
- Created inquiry and newsletter signup features using **PHP** for server-side processing and **MySQL** for data storage.
- Created events board and press page using **WordPress API** as **headless CMS** to simplify content management.

Vision Perception Analysis 🧠 | *MATLAB, Python, Git*

Apr 2022

- Developed a **machine learning** pipeline in **MATLAB** to classify fMRI time-series data and identify motion-in-depth perception centers in the brain with 90% accuracy.
- Analyzed classification accuracy of different denoising methods using **Python** to optimize the pre-processing pipeline.

iGEM Synthetic Biology Research Project 🤝

Mar 2019 - Oct 2020

- Collaborated on the design and production of medical diagnostics device using Fusion 360, 3D printing, and laser-cutting to achieve Silver (2019, [link](#)) and Gold Medal (2020, [link](#)) at the iGEM conference.
- Conducted data-collection interviews from field experts and stakeholders to incorporate feedback into design iterations.
- Liaised between engineering, software, and biology teams for the project timeline, documentation guidelines, and competition requirements, ensuring competition compliance and medal eligibility.

C-Shell 🧠 | *C, Git*

Aug 2023

- Developed a fully functional Unix shell in **C**, with command-line parsing, process control, and command execution.
- Implemented built-in command support, command chaining, signal handling, and input/output redirection.

Wireframe Rendering 🧠 | *C, Git*

Apr 2023

- Utilized **C** and **OpenGL** to create an interactive 3D wireframe visualizer for a 2D grid of altitudes.
- Implemented Bresenham's line algorithm for rendering and used key hooks to allow translation and rotation controls.

Technical Skills

Languages: Python, HTML/CSS, Java, SQL, JavaScript, PHP, C, C++, R, MATLAB

Frameworks and Technologies: React.js, Tailwind, Linux, Git, Figma