

London  
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# Michael Moawad

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Efficient self-starter with 5 years building a solid foundation of technical knowledge and collaborative relationships within the Tech industry. Reduced time-to-value on critical new skill sets by rapidly mastering and adopting new technology stacks across frontend and backend environments, frameworks, and testing tools. 7+ years of experience collaborating with cross-functional colleagues on internal and external teams.

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## Technical Skills

**Programming Languages:** JavaScript, TypeScript | C#, PHP, Python | Bash, Git

**Frameworks and Databases:** React, Redux | NodeJS, RESTful API, jQuery | SASS, Tailwind | MySQL, PostgreSQL

**Tools and Software:** AWS, Docker, Linux VPS | Magento 2, WordPress | SSH/SFTP, Lighthouse, BrowserStack

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## Experience

| Software Developer | Evinox - Sustainable Heat Networks | June 2023 – Present |
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- Employed **Redux** for seamless data flow and synchronisation, handling complex states (transactions, diagnostics, authentication), significantly boosting site performance and user experience.
- Engineered dynamic file recognition and validation in .NET, enabling intelligent mapping of incoming Excel/CSV data to PostgreSQL via project matching, MPR validation, and cross-table relational queries, eliminating **95%** of manual fuel data categorisation errors.
- Redesigned **user authentication** by migrating token management from AWS services to Redux and local storage, enabling backend-driven authentication, supporting multiple user profiles per account, and reducing AWS costs by deprecating unnecessary front-end service dependencies.
- Developed device performance graphs and data visualisations, enabling quick identification of critical errors in heat flow, thereby increasing operational efficiency and generating **additional revenue** through paid features.
- Assisted in reducing **AWS** monthly service costs by **80%** through efficient code refactoring and database indexing. Created pipelines to establish **CI/CD** environment while leveraging Lambda and EventBridge for scheduled tasks.

| Front End Developer | Architectural Association | Nov 2020 – June 2023 |
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- Developed **React** components able to retrieve and render information from live databases dynamically, allowing employees to independently upload content directly to site via **Statamic** CMS hugely reducing publishing time.
- Designed logic to map through, print data sets called from API's replacing 500+ lines of hard code across codebase.
- Process, manipulate and print pulled data using **MySQL**, **PHP** and **Axios** with **NodeJS** to access and handle JSON.
- Optimised code delivery and testing using Test-Driven Development (**TDD**) in conjunction with testing tools such as Inspector and Lighthouse

| E-Commerce Developer | Cumi Ltd (Contract) | Jul 2020 – Nov 2020 |
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- Managed **Linux VPS** using **Bash**, adjusting memory allocation and other server components while maintaining the data base ensuring safety of data, processes, and server-side software during deployment of website revisions.
- Developed functional and responsive design blocks integrating **HTML5**, **CSS3** functionality with **Magento 2** CMS.
- Boosted website load speeds through optimising asset delivery using caching, compression and more.

| Website Developer | Coptic Lawyers Worldwide (Contract) | Oct 2020 – Nov 2020 |
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- Designed UI and UX of the site and built using **React Styled components** to mitigate repeated code with focus on responsiveness and event handling using CSS grid in conjunction with Flex and media queries.
- Addressed production bugs and improvements requested by team using **Kanban** to prioritise tasks while implementing **CI/CD pipelines** to speedily deploy and iterate through new website versions.

## Education

University of Southampton BEng (Hons) in Mechanical Engineering. 2:1

Sep 2015 – Jun 2018

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## Technical Projects

**Instagram Uploader** *JavaScript, Axios, CRON, Express, Heroku*

Link available upon request

A Node.js and Express-based app that schedules Instagram uploads via Contentful and CRON jobs.

- Automated image and caption uploads; implemented robust error handling using mail parsers and webhook monitoring.

**Bible Reader Web App** *React, Axios, CSS Flex, Netlify*

<https://biblereader.netlify.app/>

A React application that fetches and displays KJV Bible chapters via API integration.

- Designed responsive UI components using CSS Flex and media queries; deployed via Netlify using Git-based CI/CD.
- Integrated external APIs with React Hooks and Router, handling asynchronous data fetching and declarative routing.

**Roll the Dice App** *JavaScript, HTML, CSS*

<http://roll-the-dice-game.netlify.app/>

A two-player dice game built with vanilla JavaScript and no external libraries.

- Implemented DOM manipulation techniques for score tracking, game flow control, and UI interactivity.
- Applied core JavaScript concepts such as event handling, function scope, and game logic state management.

**Budget App** *JavaScript, HTML, CSS*

<http://budget-app-mm.netlify.app/>

A vanilla JavaScript budget tracker calculating income and expenses.

- Structured codebase using module patterns to separate UI, data, and controller logic.
- Demonstrated knowledge of lexical scoping and closures to encapsulate reusable functionality and improve maintainability.

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## Other Experience

**Operational Health Administrator**

**Nuffield Health**

**2019**

- Analysed and consolidated healthcare data from multiple sources; built Excel tools with conditional logic to visualise trends, enabling targeted marketing and precise public health profile publication.

**Maths and Physics Tutor**

**Torchlight Tuition**

**2018 – 2019**

- Designed tailored GCSE curriculums and assessments across varied learning styles; delivered 100+ hours of tuition, developing strong communication, instructional planning, and adaptive problem-solving skills.

**Lettings Assistant**

**Savills**

**2017**

- Managed client communication, property tours, and CRM records in a high-volume agency; conducted competitive analysis to support listings and built trust through autonomous property handling.

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## Achievements & Interests

**Music:** Gained over 2 million streams with over 800 thousand monthly listeners and was placed on Spotify editorial playlists for tracks I wrote, recorded, produced, and mixed while building relationships with industry professionals.

**Charity:** Co-Organiser for Coptic City Mission Fundraisers and Christmas parties, leading worship music and distributing foods and goods. Victoria, London.