

Houssem Marzougui

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Summary – Results-driven, self-motivated and hard-working **Frontend web developer** with four years of work experience seeking a full-time position in an engineering and professional innovation environment which offers key participation, team-oriented tasks, immediate challenges, and career opportunity.

Professional Attributes

- Fast learner with a strong desire to master new concepts and technologies.
- Have an interest in crafting efficient and scalable modern software solutions.
- Exceptional interpersonal and collaboration skills.
- Strong capacity to work under stress and time constraint.
- Strong leadership and management background.

Skills

- HTML5, CSS3, Material UI, Bootstrap
- JavaScript (ES6)
- React.js, Next.js, Redux
- PostgreSQL, MongoDB, MySQL,
- Node.js, Express.js, Ruby on Rails
- Jest, React libraires, Enzyme, Mocha, Chai, Cypress
- Version Control (Git), GitHub workflow, Circleci
- Heroku, Netlify, Firebase and Vercel deployment
- REST API, Postman, Docker (basic), Bash
- OOP, Data Structures and Algorithms

Education

Master of Science in Electrical and Computer Engineering

2017-2020

University of Victoria

Victoria, BC, Canada

Bachelor of Science in Electrical Engineering

2007-2011

United States Naval Academy

Annapolis, MD, USA

Experience

❖ React Developer

JAPR Technologies | Toronto, ON, Canada (Remote)

02/2022 – Present

- Developed new UI features and improved code coverage for a healthcare application (myaidin.com) that serves thousands of users daily, using React (classes and hooks based) and Redux.
- Brainstormed new automated unit and integration test strategies and consistently increased test coverage to ensure 100% quality results using Jest, React testing, and Cypress libraries.
- Contributed to backend development by actively engaging in Ruby on Rails and conducting *rspec* testing, reinforcing the application's comprehensive development and testing approach.

❖ Frontend Developer

Freelance

10/2020 – 01/2022

Developed and designed several client and personal client-side static pages and full stack web applications:

- [Portfolio](#): Personal website built with *React.js* and *Material-Ui* and features most projects built to date (all other projects should be displayed there as well).

❖ Remote Moderator

OneClass | 📍 Toronto, ON, Canada

08/2018 – 12/2022

- Supervise and moderate platform educators to ensure highest quality service to students in North America.
- Engage undergraduate students across Canada and the U.S understand their math, computer science, and engineering learning objectives through extensive project assignments.

❖ Technical Analyst

Deloitte | 📍 Kitchener, ON, Canada

01/2019 – 11/2019

- Produced and partially managed Scientific Research and Experimental Development (SR&ED) technical reports for clients in many industries including TMT and Manufacturing in English and French in a rapid and challenging work environment.
- Discussed and studied clients full design engineering projects to determine their innovation levels and SR&ED eligibility.

❖ Research and Teaching Assistant

University of Victoria | 📍 Victoria, BC, Canada

09/2017 – 04/2020

- Implemented and simulated medical ultrasound imaging algorithms in Matlab using adaptive and conventional plane wave compounding techniques that reduced computational complexity and maintained similar image quality.

❖ Software Engineer

The Naval Electronics Division | 📍 Tunis, Tunisia

02/2016 – 02/2017

- Developed a technical report and messaging application to help mechanical engineers on warships get instant feedback on different mechanical and electrical complicated issues – built with JS, Node.js, Socket.io and MongoDB.
- Developed a web application that allows logistics officers instant material purchase and stock availability check – built with React.js, Node.js and PostgreSQL.

❖ Communications Officer

Tunisian Navy | 📍 Tunis, Tunisia

06/2011 – 01/2016

- Developed and supervised maintenance planning for all transmission Radio equipment onboard naval units to ensure full operational status of different communication systems.
- Developed and conducted training sessions for communication team members.

Publications

- H. Marzougui and D. Rakhmatov, "Data-Driven Sensor Array Subsampling for Plane-Wave Ultrasound Imaging," 2019 IEEE International Ultrasonics Symposium (IUS), Glasgow, United Kingdom, 2019, pp. 2337-2340, doi: 10.1109/ULTSYM.2019.8925560.

Interests

- Technology, hiking, cooking, health and wellness

Languages

- English (Fluent) - French (Fluent) - Arabic (Native)