

# AYMEN DAOUDI

Software Development Engineer

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## EMPLOYMENT

### *Full stack Software developer, OneOcean (ex. MarinePress)*

Montréal, Qc, Ca.  
March 2020 –  
present

- **OneOcean:** a platform to manage maritime navigation.  
Participated in the Design, development and delivery of the solution from business rules gathering up to the delivery of the final solution, developing APIs, micro services, developing desktop application using Electron + Angular + TS, managing CI/CD and release pipelines...
- ❖ **Environment:** VisualStudio, **C#, ASP.Net core, Electron, Angular, TypeScript, MongoDB, Docker, Kubernetes, Azure DevOps**, Git, **Microsoft Azure**, XUnit.

### *Full stack Software developer, Stratec global*

Montréal, Qc, Ca.  
Jan 2019 –  
Mar 2020

- **ITMatters:** a platform to manage financial policies, agencies, accounts, insurances, contacts.  
Participated in the Design, development and delivery of the solution from business rules gathering up to the delivery of the final solution, including meeting the client, writing estimates, designing database, developing API, developing cross platform mobile app, managing CI/CD and release pipelines...
- ❖ **Environment:** VisualStudio, **C#, ASP.Net core, Xamarin.Forms, MVVM, Rx, SQLServer, EntityFramework core, Azure DevOps**, Git, **Microsoft Azure**, Wasabi (Amazon S3), MSTest.

### *Software developer, CRIM | Computer Research Institute of Montréal*

Montréal, Qc, Ca.  
Aug 2017 –  
Nov 2017

- **Eclipse plugin:** Participated in the design, development and documentation of an Eclipse plugin for a programming language used to write test cases for a flight simulator.
- ❖ **Environment:** Eclipse, **Eclipse PDE, Java, ANTLR, XText, WindowBuilder**.

### *Research assistant, Savoir Faire Linux*

Montréal, Qc, Ca.  
Sep 2016 –  
Apr 2017

- **Software quality of P2P VOIP apps:** Studied the software quality of Jami (prev. Ring) software in term of performance and energy consumption, by assessing its CPU, Memory and bandwidth consumption and benchmarking it against other similar solutions such as Skype and Tox.
- **NeTraf:** Developed Netraf, a Linux utility for monitoring Bandwidth usage for TCP/UDP connections by process name. Source: <https://github.com/AymenDaoudi/NeTraf>
- ❖ **Environment:** Linux, **.NetCore, C#, Shell, GnuPlot, IPTraf, IPTables, Nmon**.

### *.Net/UWP Consultant, Novasup*

Algiers, Algeria  
Feb 2016 –  
Aug 2016

- **Windows Store apps:** Helped designing, developing and publishing mobile apps for several Algerian news papers on the Windows Store.
- ❖ **Environment:** Visual Studio 2015, **C#, UWP, MVVM, ASP.Net core, Rest, Nunit, Entity Framework, SQLite**.

### *Experience Technical Evangelist Developer, Microsoft*

Algiers, Algeria  
Dec 2015 –  
Aug 2016

- **Collaboration and technical evangelism:** Collaborating with ISVs and startups on the integration of Microsoft Azure solutions.
  - Implementation of proof of concepts using platforms such as UWP and Microsoft Azure.
  - Helping several Algerian startups and ISVs to use cloud computing via Microsoft Azure.
- ❖ **Environment:** Visual Studio 2015, **C#, UWP, Entity Framework, Rest, Nunit, SQLite, Microsoft Azure**.

### *.Net developer, HydraPharm Group*

Algiers, Algeria  
Jan 2014 –  
Dec 2015

- **Developing .Net applications:** Worked on internal projects delivering software for internal needs.
  - **HPCareers:** OCA (Occasionally Connected Application) for career management and human resources.
  - **SalesNow:** Application for monitoring and reporting real time sales data.
- ❖ **Environment:** Visual Studio 2013, **C#, WPF, MVVM, WCF, Nunit, DevExpress, SQLServer 2008**.

## CERTIFICATIONS

- **Microsoft Certified Specialist:** Programming in C#: Microsoft, License E716-0701(2014).

## EDUCATION

### *Master of Science in Computer Science, UQAM | Université du Québec À Montréal*

Montréal, Qc, Ca  
Sep 2016 –  
Dec 2018

- **Main research project:** Android : Automatic detection of presentation layer architectural design patterns (MVC, MVP, MVVM) in Android apps through bytecode analysis. A tooled approach and an empirical study.
- **Research Papers:** Published a research paper An Exploratory Study of MVC-based Architectural Patterns in Android Apps to the international ACM SAC Conference (SAC'19).  
<https://dl.acm.org/citation.cfm?id=3297447&dl=ACM&coll=DL>
- **Research Project:** Participated in a research project with the company Savoir Faire Linux. Proposing solutions to assess P2P VOIP apps such as Jami (prev. Ring), skype and tox software quality for performance and energy consumption.
- **Supervising:** Supervising interns building Xamarin applications.
- **Teaching:** Giving Java courses and workshops for Bachelor students.

### *Master degree in computer science (Information systems), ESI | Ecole Nationale Supérieure d'Informatique*

Algiers, Algeria  
Sep 2007 –  
Juin 2014

- **Final Project:** Ranking web pages using Google's PageRank algorithm: study, modeling, implementation and simulation. Source: <https://github.com/SamTheDev/PageRank-Analyzer>

### *High school diploma (baccalauréat) Lycée Chihani Bachir*

Khenchela,  
Algeria  
2004 – 2007

## OTHER EXPERIENCE

### *Microsoft Student Partner, Ecole Nationale Supérieure d'Informatique*

Algiers, Algeria  
2011 – 2013

- **Activities and events:** Participating and organising DevCamps and Microsoft events in Algeria: Imagine Cup, Microsoft TechDays and Microsoft Connect.

## TECHNOLOGIES

- **Programming languages:** C#, Java, LINQ, TypeScript, F#, C, SQL.
- **Scripting & Markup languages:** XAML, XML, Json, HTML, CSS, Yaml, PowerShell, Shell, Latex.
- **Frameworks & Architectures:** .Net, .Net Core, Asp.net Core, Java, WPF, UWP, Android, Xamarin, WindowsForms, Spring, EntityFramework, Nunit, XUnit, MSTest, Junit, JavaFx, Silverlight, Angular, MVVM, MVC, MVP, Microservices.
- **IDEs:** Visual Studio, Visual Studio Code, JetBrains, Eclipse, Eclipse PDE, Netbeans.
- **Version control and CI/CD systems:** AzureDevOps, Git.
- **Cloud platforms:** Microsoft Azure (Notification Hub, Azure Functions, SendGrid, WebApps, SQLServer DBs, ServiceBus), Amazon S3, Wasabi.
- **Agile methods:** Scrum, XP, Kanban, Squad framework
- **OS & Utilities:** Windows, Linux, LaTeX, Microsoft Office (Word, Excel, PowerPoint), GnuPlot, Netraf, IPTraf, IPTables, Nmon.

## PRIZES AND AWARDS

- **Exemption Scholarship:** Exemption from additional tuition fees for international students. Fall 2016 - Summer 2017, UQAM | Université du Québec À Montréal.

## LANGUAGES

- **English:** Fluent.
- **French:** Fluent. Level C1: 579 (Test de Connaissance du Français, TCF).

## HOBBIES

- Bodybuilding, Books, Philosophy, Guitar (Flamenco, Blues, Algerian Chaabi) and ... programming too !

## LINKS

- **in LinkedIn:** <https://www.linkedin.com/in/aymendaoudi>
- **Github:** <https://github.com/AymenDaoudi>
- **stackoverflow:** <https://stackoverflow.com/users/2002048/aymendaoudi>