Aymen Daoudi
Software Development Engineer

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Employment

Backend Software developer **AddEnergie**	Montréal, Qc, Ca.

- **Electric charging stations:** Building APIs and Services for AddEnergie's networks of electric cars charging stations.
- ❖ **Environment:** **Microservices**, **ASP.Net core**, **.Net 6**, VisualStudio, **C#**,**SQLServer**, **EntityFramework Core**, **MongoDb**, **Docker**, **Kubernetes**, **Azure DevOps**, Git, **Microsoft Azure**, XUnit...

Montréal, Qc, Ca. January 2022 – present

Full stack Software developer, **OneOcean (ex. MarinePress)**	Montréal, Qc, Ca.

- **OneOcean:** a platform to manage maritime navigation.
  Built and Participated in the design, development, testing and deployment of multiple database, backend and frontend sections of the solution in a microservices architecture.
  Implemented continuous integration and delivery (CI/CD) pipelines and worked on the deployment of solutions using docker and kubernetes.
  Participated in writing RFCs, POCs, documentation, tech articles and presentations.
- ❖ **Environment:** **Microservices**, **ASP.Net core**, **.Net core**, VisualStudio, **C#**,**SQLServer**, **EntityFramework Core**, **Angular**, **TypeScript**, **Electron**, **MongoDb**, **Docker**, **Kubernetes**, **Azure DevOps**, Git, **Microsoft Azure**, XUnit.

Montréal, Qc, Ca. March 2020 – January 2022

Full stack Software developer, **Stratec global**	Montréal, Qc, Ca.

- **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.

Montréal, Qc, Ca. Jan 2019 – Mar 2020

Research assistant, **UQAM	Université du Québec À Montréal**	Montréal, Qc, Ca.

- **Reseach project:** Worked on the automatic detection of presentation layer architectural design patterns (MVC, MVP, MVVM) in Android apps through bytecode analysis. A tooled approach and an empirical study. Source: https://github.com/AymenDaoudi/Rimaz
- **Published:** a research paper "An Exploratory Study of MVC-based Architectural Patterns in Android Apps" to the international ACM SAC Conference (SAC'19).
- **CRIM | Computer Research Institute of Montréal:** 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**.
- **Savoir Faire Linux:** 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.
  - 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.

Montréal, Qc, Ca. Sep 2016 – Dec 2018

.Net/UWP Consultant, **Novasup**	Algiers, Algeria

- **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**.

Algiers, Algeria Feb 2016 – Aug 2016

Experience Technical Evangelist Developer (Internship), **Microsoft**	Algiers, Algeria

- **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**.

Algiers, Algeria Dec 2015 – Aug 2016

.Net developer, **HydraPharm Group**	Algiers, Algeria

- **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.

Algiers, Algeria Jan 2014 – Dec 2015

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 reseach 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. Source: https://github.com/AymenDaoudi/Rimaz
- **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).
- **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, Swagger.
- **IDEs**: Visual Studio, Visual Studio Code, Jetbrains, Eclipse, Eclipse PDE, Netbeans.
- **DevOps, Version control and CI/CD systems**: AzureDevOps, Git, Github, Kubernetes, Docker.
- **Cloud platforms**: Microsft 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

- Music (Guitar, Drums), Bodybuilding, Philosophy, History, and … programming too !

LINKS

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