AYMEN DAOUDI

Software Development Engineer

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EMPLOYMENT

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- **Building Microservices:** Building and testing microservices and APIs to help DMG teams and products consume data in a more efficient and optimized way.
- **Code reviewing:** Reviewing, correcting and approving code written by other developers and team members in order to ensure a good level of code standards respected.
- **Design and architecutre:** Reimplemting API's by proposing better design and architecture that are conform to patterns and practices such as Domain Driven Development, Onion architecture and Command and Query Responsibility Segregation (CQRS).
- **DevOps:** Implementing continuous integration and delivery (CI/CD) pipelines and worked on the deployment of solutions using docker and kubernetes.
- ❖ Environment: **Microservices**, **gRPC**, REST, .NET6, **C#**, **VisualStudio**, **Postgres**, **MongoDb**, **Docker**, **Kubernetes**, **Github**, **AWS**, MSTest ...

Backend Software developer **AddEnergie**

Montréal, Qc, Ca.
January 2022 –
April 2022

- **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...

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

Montréal, Qc, Ca.
March 2020 –
January 2022

- **OneOcean:** a platform to manage maritime navigation: Participating in the design, development, testing and deployment of multiple database, backend and frontend sections of the solution in a microservices architecture.
- **DevOps:** Implementing continuous integration and delivery (CI/CD) pipelines and worked on the deployment of solutions using docker and kubernetes.
- **Documentation:** 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.

Full stack Software developer, **Stratec global**

Montréal, Qc, Ca.
Jan 2019 –
Mar 2020

- **ITMatters:** A platform to manage financial policies, agencies, accounts, insurances, contacts: design, developing and delivering API's and frontend crossplatform applications.
- **Analysis:** Anlysing customer requirements and gathering business rules.
- **DevOps:** Implementing continuous integration and delivery (CI/CD) pipelines and worked on the deployment of solutions using docker and kubernetes.
- ❖ Environment: VisualStudio, **C#**, **ASP.Net core**, **Xamarin.Forms**, **MVVM**, **Rx**, **SQLServer**, **EntityFramework core**, **Azure DevOps**, Git, **Microsoft Azure**, Wasabi (Amazon S3), MSTest.

Research assistant, **UQAM | Université du Québec À Montréal**

Montréal, Qc, Ca.
Sep 2016 –
Dec 2018

- **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.

.Net/UWP Consultant, **Novasup**

Algiers, Algeria
Feb 2016 –
Aug 2016

- ● **Windows Store apps:** 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 (Internship), **Microsoft**

- **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**

- **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**

- **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 Skype, Jami (prev. Ring) and Tox) software quality for performance and energy consumption.

- **Supervising:** Supervising interns building Xamarin applications.

- **Teaching:** Giving Java courses and workshops for Bachelor students.

Montréal, Qc, Ca
Sep 2016 –
Dec 2018

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

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

Algiers, Algeria
Sep 2007 –
Juin 2014

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

Khenchela,
Algeria
2004 – 2007

EDUCATION

TECHNOLOGIES

«««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **Programming languages**: C#, Java, SQL, TypeScript, F#. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **Scripting & Markup languages**: PowerShell, Shell, Latex, XAML, XML, Json, Yaml. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **Frameworks & Architectures**: .Net, Java, Xaml technologies, Android, EntityFramework, Test frameworks, MVVM, MVC, MVP, Microservices, Angular. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **DevOps, Version control and CI/CD systems**: AzureDevOps, Git, Github, Kubernetes, Docker. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **Cloud platforms**: Microsoft Azure, AWS, WebSphere. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **Agile methods**: Scrum, XP, Kanban, Squad framework «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **OS & Utilities**: Windows, Linux, LaTex, Microsoft Office, GnuPlot, Netraf, IPTraf, IPTables, Nmon. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3

LINKS

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PRIZES AND AWARDS AND OTHER EXPERIENCES

«««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **Exemption Scholarship | 2016-2018 | UQAM (Université du Québec À Montréal)**: Exemption from additional tuition fees for international students. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **Microsoft Student Partner | 2011-2013 | ESI (Ecole Nationale Supérieure d'Informatique)**: Participating and organising DevCamps and Microsoft events in Algeria: Imagine Cup, Microsoft TechDays and Microsoft Connect «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3

LANGUAGES

«««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **English**: Fluent. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **French**: Fluent. Level C1, 579 (Test de Connaissance du Français, TCF). «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3 **Arabic**: Mother tongue. «««< HEAD ======= »»»> ab1e5fd7e637411b39d22381337b89d57ff38df3

HOBBIES

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