

Chihab Mokaddem

RESEARCH SOFTWARE ENGINEER · R&D SCIENTIST · PHD FROM UNIVERSITY OF MONTREAL

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"Be the change that you want to see in the world."

Summary

- Team lead and client-facing skills demonstrated by managing a university & veterinary cabin project of 5 months resulting in MVC application that facilitate the performance and control of animal vaccination.
- Cross functional collaboration skills and an excellent relationship builder with biological staff as evidenced by an accepted PNR (National Research Project) of Enhanced Vaccination with a grant funding of 50DA million, and an excellent Bachelors dissertation.
- Research and Development skills involving Critical thinking and Problem solving of critical software engineering problems, to improve software quality, by reusing existing knowledge or extracting it from previous examples using AI techniques. This is demonstrated by a \$20k annual scholarships, 5 scientific publications (MoDELS, SoSyM), and an approved Ph.D. thesis from UdeM.

Work Experience

Université de Montréal (UdeM)

TEACHING ASSISTANT & EVALUATOR

- Several Courses: Software Engineering, Java Programming and Application, Security of computer systems, ..

Montreal, Canada

Sep. 2018 - Apr. 2020

International Scientific Journals and Conferences

CO-REVIEWER

- IET Software Journal - SEN, ASE, SoSyM Journal, Models, GECCO (Genetic and Evolutionary Computation Conference).

Montreal, Canada

Jan. 2018 - Dec. 2022

Project funded by CRSNG (Conseil de recherches en sciences naturelles et génie du Canada) With GEODES (Software Engineering Research Group) Team

R&D SCIENTIST & SOFTWARE ENGINEER

- Project management skills demonstrated by an accepted Ph.D. thesis from major university.
- Communication skills and conflict resolution led to collaborations with high class researchers with a \$20k annual scholarships.
- Knowledge of current industry trends such as refactoring techniques and existing design patterns which are use to improve the quality of software resulting in 2 scientific publications (SoSyM Journal).
- Research and Development skills with a Critical thinking to solve critical software engineering problems by extracting knowledge from prior examples using AI techniques. This is demonstrated by scientific publications (MoDELS).
- Learning and practicing of different domain-specific languages, tools, and servers resulting in rich validation of results in many publications.

Montreal, Canada

Sep. 2015 - May. 2022

National Institute of Professional Training of Algeria

COMPUTER SCIENCE LECTURER & EVALUATOR

- Preparing course content and presenting it.
- Preparing and monitoring of practical work with different software.
- Examining and evaluating professional staff.

Mostaganem, Algeria

May. 2015 - Aug. 2015

PNR (National Research Project) with SIF (Simulation, Integration & Data Mining) Team & LIO (Lab Of Informatics Of Oran)

R&D SCIENTIST & SOFTWARE ENGINEER

- Cross functional work with biologists to understand the animal vaccination process as demonstrated by a PNR (National Research Project) of Enhanced Vaccination with a grant funding of 50DA million.
- Evolve systems while preserving the behavior of previous features resulting in a robust database used by all collaborators at the same time.
- Comprehensive view of the vaccination resulting in rich solutions allowing different types of users to interact with the proposed system while preserving the dynamics and security of the system.

Oran, Algeria

Sep. 2013 - Sep. 2014

Collaborative Project between University and Veterinary Cabin

FULL STACK DEVELOPER & TEAM LEAD

- Leading a team of developer students for 5 months resulting in developing an MVC application.
- Client-facing tasks with Veterinary resulting in digital platform that facilitate animal vaccination.
- Cross functional work with a veterinary to understand the animal vaccination process.

Mostaganem, Algeria

Jan. 2012 - May. 2012

Publications (2/5)

Recommending Model Refactoring Rules from Refactoring Examples

Conference

ACM/IEEE 21ST INTERNATIONAL CONFERENCE ON MODEL DRIVEN ENGINEERING LANGUAGES AND SYSTEMS (MODELS)

Oct. 2018

- Chihab Mokaddem, Houari Sahraoui and Eugene Syriani

A generic approach to detect design patterns in model transformations using a string-matching algorithm

Journal

INTERNATIONAL JOURNAL ON SOFTWARE AND SYSTEMS MODELING (SoSyM), 1-29

Jun. 2022

- Chihab Mokaddem, Houari Sahraoui and Eugene Syriani

Talks

ACM/IEEE 21st International Conference on Model Driven Engineering Languages and Systems (MoDELS)

Copenhagen, Denmark

RECOMMENDING MODEL REFACTORING RULES FROM REFACTORING EXAMPLES

Oct. 2018

SIGSOFT/IEEE 9th System Analysis and Modeling Conference

Saint-Malo, France

TOWARDS RULE-BASED DETECTION OF DESIGN PATTERNS IN MODEL TRANSFORMATIONS

Oct. 2016

Education

Ph.D. in Computer Science

Montreal, Canada

UNIVERSITY OF MONTREAL

Sep. 2015 - Sep. 2022

Master in Information Systems Engineering

Mostaganem, Algeria

UNIVERSITY ABDELHAMID IBN BADIS OF MOSTAGANEM (TOP THREE OUT OF 50 STUDENTS)

Sep. 2013 - Aug. 2015

Bachelor in Mathematics and Computer Science

Mostaganem, Algeria

UNIVERSITY ABDELHAMID IBN BADIS OF MOSTAGANEM (TOP THREE OUT OF 90 STUDENTS)

Sep. 2010 - Aug. 2013

Skills

Languages	Arabic, English, French
Programming	JAVA, C++, C, Python, JESS, Prolog
Web	HTML, XML, PHP, JavaScript, CSS
Databases	PL/SQL, SQL(Oracle, Access, MySQL)
Simulation	Arena (SIMAN)
Ontologies	Protégé
Web Application	MVC (Model View Controller): J2EE, EJB(Entity Java Bean), Session Bean, Managed Bean, Data Control, JSF, JSP Fusion Middleware: Business Components, Restful Web Services, SOAP Web Service Mobile Application: Oracle MFA
Others	LaTeX, Photoshop, Camtasia Studio

Awards & Hobbies

PRIZES AND SCHOLARSHIPS

2020 - 2021	\$12k , Scholarships for the end of doctoral studies for Graduate and Postdoctoral Studies (ESP)	Canada
2019 - 2020	\$2k , Department of Computer Science and Operations Research Writing Scholarship	Canada
2016 - 2020	\$5k annually , Department of Computer Science and Operations Research Excellence Scholarship	Canada
2015 - 2019	\$15k annually , Research grant within the project "Learning from examples to improve Automation in Model-Driven Engineering", CRSNG (RGPIN-2014-06702)	Canada
2015 - 2017	\$21,6k annually , University of Montreal Additional Tuition Fee Exemption Bursary	Canada
2013 - 2015	20k DA annually , Algerian government scholarship for postgraduate studies	Algeria
2012 - 2013	40k DA , Research grant within the PNR (National Research Project) "Service-oriented architecture for immunization planning", (code:12/u310/65)	Algeria
2010 - 2013	16k DA annually , Algerian government scholarship for undergraduate studies	Algeria

HOBBIES

- Swimming regularly and playing Soccer occasionally.
- Seeing architectural designs in different fields is a great way to get inspired.
- Reading and writing scientific books and articles.
- Traveling: have been to 5+ countries on 4 continents.