

ANWAR GHAMMAM

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+1 248 991 4645 | Bloomfield Hills, MI 48304

EDUCATION

Oakland University | Rochester, MI, USA
Ph.D. in Computer Science & Information
09-2021- *In progress*

Oakland University | Rochester, MI, USA
Master's in Computer And Information Sciences
09-2021 - 12/2022

National Institute of Applied Science And Technology (INSAT) | Tunis, Tunisia, Tunisia
Software Engineering Degree
09/2016 - 06/2021

RESEARCH EXPERIENCE

Oakland University | Rochester, Michigan
Research & Teaching Assistant
09/2022 - *Current*

- Apply intelligent search and machine learning in different areas such as Software Containers, web services, refactoring, and software quality.
- Work under the supervision of Dr. Marouane Kessentini (kessentini@oakland.edu)
- Assist teachers with lesson preparation, curriculum implementation, teaching, and student mentoring.

Instadeep | Boston, USA
NSF Intern
05/2022 - 09/2022

- Worked on a multi-objective PCB grid using Reinforcement learning

UM-Dearborn (Intelligent Software Lab) | Dearborn, Michigan
Research Assistant
09/2021 - 05/2022

- Worked on a Dynamic workload balancer for software containers in FORD smart and connected vehicles using Multi-Objective optimization Algorithms (Work accomplished in collaboration with Ford Motor Company)
- Teaching Assistant: Taught labs for Undergrad (CIS 376 Software Engineering)

Artificial Intelligence Research Center (UMD) | Dearborn, MI
Research Assistant
07/2020 - 10/2020

- Worked on an automatic refactoring prediction tool using software quality metrics and code smells

Smart Team, | Tunis, Tunisia
Artificial Intelligence Intern
05/2020 - 06/2023

- worked on a CV analyzer: automatic extraction of information in the resume using Entity Recognition in NLP and selection of the appropriate resumes to a post description (using TF-IDF)

ISE Lab, University of Michigan-Dearborn
& INSAT | Tunis, Tunisia

- Built and trained machine learning models to predict the effect of code refactoring on code smells and the number of bugs in software projects.

Student Researcher in Artificial Intelligence

03/2020 - 05/2020

PUBLICATIONS

- **Dynamic Software Containers Workload Balancing via Many-Objective Search**, IEEE Transactions on Services Computing Journal (TSC-22) - Status: **Accepted**
- **Many-Objective Software Containers Management in Smart Vehicles**, IEEE Transactions on Software Engineering Journal 23 - Status: **Submitted**
- **An Empirical Study of Refactorings and Technical Debt in Build Systems**, FSE-24 Status: **Submitted**
- **Context-Based Refactoring: About The Relation Between Context And Refactoring**, TSC-2024 - Status: **Submitted**

WORKSHOPS & CONFERENCES

- NSF Industry-University Center on Pervasive AI event, Flint, Michigan 25-27 Oct 2023
- NSF Industry-University Center on Pervasive AI event, Boulder, Colorado 16-18 Mar 2023
- NSF Industry-University Center on Pervasive AI event, Portland, Oregon 26-29 Oct 2022
- ASE 2022 10-14 Oct 2022, Oakland University, MI: Web Chair & Student Volunteer 10-14 Oct 2022

AWARDS AND DISTINCTIONS

- **NSF I-Corps Program**: Our team received NSF funds and was selected to attend the National I-Corps NSF.
- **2022-2023 CSE Graduate Research Competition**: Received the Best Research Quality/Presentation Award.
- **Industry-University Center on Pervasive AI event, Portland**: Received the most industry-ready research award among many great projects presented by CU Boulder University, Oregon State University, and Oakland University.

SKILLS

Technical Skills

- Python - SQL/NoSQL
- C++/C - Git
- Java - UML
- Web Development

Language Skills

- English: Fluent Written & Spoken
- French: Fluent Written & Spoken
- Arabic: Native

CERTIFICATIONS

- **PCAP Certification** | Python Institute
- **Machine Learning Certificate**: Coursera
- **Neural Networks and Deep Learning Certificate**: Coursera
- **Natural Language Processing with Classification and Vector Spaces**: Coursera
- **Improving Deep Neural Networks: Hyperparameter tuning, Regularization, and Optimization Certificate**: Coursera
- **Convolutional Neural Networks Certificate**: Coursera
- **Improving Deep Neural Networks Certificate**: Hyperparameter tuning, Regularization, and Optimization: Coursera
- **Sequence Models Certificate**: Coursera
- **Improving Deep Neural Networks Certificate**: Coursera
- **Natural Language Processing in TensorFlow**: Coursera
- **Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning**: Coursera