Mariem Khlifi

M.Sc. Computer Engineering and Information Technology

About me

Address	Willi-Graf-Strasse,17,0711,80805, Munich, Germany
Birthdate	June 16th 1995,Kairouan,Tunisia
Email	mariemkhlifi16@gmail.com
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Github	https://github.com/khmariem
Hobbies	Literature, Music, Kayak (almost drowned once but I still love it), Green Tea

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Education

2018–Present   **M.Sc.**, *Technical University of Munich*, Germany.
Computer Engineering and Information Technology, Automation and Robotics

2018–2018   **Exchange Semester**, *Czech Technical University*, Prague, Czech Republic.
Artificial Intelligence and Computer Vision, GPA 3.75/4.0

2016–2018   **Master of Engineering**, *IMT Atlantique*, Brest, France.
Computer Science (Major), Networks and physics, GPA of major: 3.5/4.0

2014–2016   **Bachelor in Mathematics and Physics**, *Preparatory Institute for Scientific and Technical Studies (IPEST)*, La Marsa, Tunisia.
Succeeded in written and oral exams for French Engineering Schools

2010–2014   **High-School baccalaureate**, *Pioneer High School*, Kairouan, Tunisia, Mathematics and Physics.
GPA 3.8/4.0

Work Experience

November 2018–Present   **Vision Software Developer**, *Phoenix Robotics*, Munich, Germany.
Phoenix Robotics is a research student group at Technical University of Munich where we build our own autonomous car and we are participating in this year's Carolo Cup. I am part of the perception team where I develop vision algorithms for the car to detect barred areas, zebra crossings,etc. from the pictures taken by the cameras installed on the vehicle.

August 2018	**Summer Research Intern**, *IMT Atlantique*, Brest, France.
	I conducted research at the electronics lab where I worked on finding a structure in the visual cortex in the brain that resembles the layers of neural networks like InceptionV3.I used the Sherlock dataset from openNeuro consisting of fMRI data of subjects who have watched the sherlock movie and feature vectors that I extracted from the actual video frames.I used the Ridge Regression for the classification. The results showed primary positive outcome, however many outliers existed and an idea of another fMRI experiment is necessary for the validation.
September 2017–January 2018	**Tutor in Computer Science**, *IMT Atlantique*, Brest, France.
	As a top student in the Computer Science major of my university, I was chosen to ensure tutoring for students to help them encounter the problems they face in the courses. I taught programming languages, helped debugging code and explained Computer Science theory for approximately 20 students every week.
July 2017–August 2017	**Summer Intern**, *Tunisia Telecommunications Operator*, Kairouan, Tunisie.
	I was initiated to the tools used to pilot the infrastructure corresponding to the 2G, 3G and 4G networks. There were also on-place interventions to repair damaged equipment. Finally, I designed a web application with PHP and HTML that would help the engineers save and access easily the data related to the structure.

Projects

University Projects

February 2017–June 2017	**Betting Software**, *IMT Atlantique*, Brest, France.
	This project was conducted in a group of ten students and it was composed of two parts: Conception of the software via UML modeling. Implementation of the software and the adequate testing programs using Java. I was responsible for the part of the software related to the players, the interface that would allow them to create new bets on games and the tests.
January 2017	**Decoding brain activity evoked during a fMRI experiment**, *IMT Atlantique*, Brest, France.
	This 1-week work was based on the HAXBY study to confirm if inverse inference is valid or not,i.e, if from the cerebral images done with MRI we can identify the object seen by the person.

Open Source Projects

November 2018–Present	**Lora**, *Munich*, Germany.
	Lora is a programming language written in Arabic aiming at making coding accessible to Tunisian children.
	https://github.com/khmariem/LORA-

Hackathons

December 2018	**Science Hack**.
	We developed a project that creates sounds from detected objects. Our goal was to see with our ears. I worked on the detection part and enhancing the speed by using multi-threading. The result of detection was 4 times faster than sequential running. https://github.com/khmariem/Science-Hack-Vision-Hearing-Challenge
November 2018	**HackaTUM 2018,WINNER!**.
	https://devpost.com/software/alexa-eye-doctor

Skills

Languages

Arabic (native), French (Bilingual), English (C1), German (B2), Spanish (A2), Portuguese (Notions)

Programming Languages

Python, Java, Matlab, Ruby (willing to learn Go and C++ and I am a fast learner)

Frameworks and Others

Flask, Bootstrap, Bash, Git, Docker, HTML, CSS, PHP, SQL, MongoDB, Linux/Unix, TCP/IP, Web Security against SQL injection and XSS, machine learning, data structures.

Awards

- November 2018-HackaTUM Winner: My team won the Zeiss challenge.
- January 2017-3rd Place in a Cars Contest: My team was ranked third in the competition of building cars controlled via an Android App and that we worked on in a team of 9 students. I was part of the Android team.
- July 2016-Scholarship of Excellence: After succeeding in the examination of entrance to French engineering schools, I was awarded the Tunisian scholarship of excellence to pursue my studies in France.
- July 2014-Regional Award of Kairouan: I had the the first position in my region for my baccalaureate degree.
- July 2010-Regional Award of Sousse: I had the first position in the region of Sousse in a national competition.

Extra-Curricular Activities

November 2018–Present **Founder of Cool Coderin**, *Munich*, Germany.
We aim at providing a comfortable environment for women to learn how to code and become experts.
https://www.meetup.com/fr-FR/Cool-Coderin/

March 2017–January 2018 **President of Club Arabia**, *Brest*, France.
Club Arabia is an important school club that contributes to the good atmosphere reigning over our multi-national campus. I organized activities, parties,etc. to introduce the Arabic culture to the students.

September 2016–January 2018 **Auditor**, *GER Telecom*, Brest, France.
I was a member of the junior Enterprise of our school and an active auditor. My role consisted of checking the legal documents and ensuring that they respect the regulations that run a junior. I also advise the junior through its strategic procedure. Finally, I ensure formations for the upcoming junior-entrepreneurs. I played a huge role in GER Telecom as my advice and my supervision helped us successfully pass the tests of French Junior Entreprises (CNJE).