OUARAS KHELIL RAFIK
DATA SCIENCE & ANALYSIS, DESIGNER

CONTACT

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Algeria-

SKILL

- Data Analysis
- Full Stack Dev
- Designer
- Trainer
- Leader
- Chef

MY PROFILE

My name is OUARAS Khelil Rafik, I am 23 years old and hold a Master's degree in Data Science and Analysis in Computer Science. Consistently ranked among the top students in my program, I have been recognized for academic excellence and have built a strong foundation in software engineering, supported by substantial hands-on experience through real-world projects.

My skill set spans multiple programming languages and technologies, with a sharp eye for design and a strong interest in data analytics. I am highly motivated to contribute to innovative, forward-thinking projects and thrive in dynamic, collaborative tech environments where I can grow professionally while delivering impactful solutions.

EDUCATION

Baccalaureate of Mathematics
Mohamed Lamine Dabaghine High school, The Eucalyptus, Algiers
Expected Graduation Date: September 2020

Academic Achievements:

- **"Honors":** Earned the Honors distinction for consistently strong performance in the Mathematics Baccalaureate.
- **Academic Ranking:** Maintained a steady position among the top students throughout the academic journey.
- **Math Competitions:** Recognized for excellence in various math competitions, demonstrating strong problem-solving and analytical skills.

Bachelor of Mathematics and Computer Science
- Computer System Specialty -

M'hamed Bougara University, Boumerdes , Algeria
Expected Graduation Date: July 2023

Relevant Courses:

- Algebra, Analysis, Machine Structure, Algorithmics and Data Structures, Statistics and Probability Introduction, Networks, Advanced Databases and Semi-Structured Data, Compilation and Language Theory, Proof Theory and Mathematical Logic, Numerical Methods and Graph Theory, Introduction to Artificial Intelligence, Mobile, Web Application Development, Software Engineering, English and Scientific Writing.

Academic Achievements:

- **Overall Performance:** Outstanding academic results, ranked first in the Computer Systems specialty out of 150 students with an average score of 13.03 out of 20.
- **Thesis:** Completed an exceptional thesis in English titled "Design and Implementation of a Web & Mobile Text to Braille Translator.
  - DotWise.online," awarded an "Excellent" distinction with a score of 18 out of 20.
  - Published a scientific paper related to the thesis and presented it at conferences.
- **Application Development:** Successfully developed several web, mobile, and desktop applications, demonstrating strong practical application of academic skills.

Master's degree in computer science
- Analytics and Data Science Specialty -
BEN YOUSSEF BEN KHEDDA University 01, Algiers, Algeria
Expected Graduation Date: July 2025

Relevant Courses:

- Statistics Exploratory and Inferential, Probability, Optimization, Mathematics for Engineering, Machine Learning and Deep Learning, Learning and Complexity, Information Extraction from Text Sound and Video Documents, Data Mining, Data visualization, Data Warehouse and OLAP, Principles and Methods of Distributed Databases, Big Data & analytics, Databases NoSQL & Cloud, High-Performance Computing, Marketing and Communication, English and Scientific Writing Techniques, Simulation for Complex Systems, Data Visualizations, Social media analysis.

Academic Achievements:

- **Overall Performance:** Demonstrated outstanding academic performance, ranked first out of 43 students in the Data Science and Analysis specialty, with a grade of 14.37/20 in the first year of the master's program. In the second (final) year of the master's program, achieved a grade of 16.66/20, confirming continued academic excellence.
- Developed a web application for sentiment analysis of Arabic tweets named "IHSAS (إحساس)," accompanied by a scientific article.
- Applied machine learning techniques to solve real-world problems and contributed to the field of sentiment analysis in Arabic through practical applications.
- Developed a desktop application "TSP Solve" that solves the Traveling Salesman Problem using a genetic algorithm with Python.
- Created a desktop application for biometric iris detection. Implemented sound biometric detection using the Librosa library.
- Simulated an ENT and Radiology clinic system using FlexSim Healthcare.
- Developed a script for OCR image processing tailored to Arabic characters and submitted a conference paper titled "Bridging the Gap: Fusing CNNs and Transformers to Decode the Elegance of Handwritten Arabic Script".
- Developed a medical imaging script titled "HEMORRHAGE AI: Transforming Intracranial Hemorrhage Diagnosis with Machine Learning and Deep Learning".
- Created a cryptocurrency prices dashboard using Power BI with integrated web scraping for real-time data visualization.
- Prepared a conference paper titled "Enhancing Sentiment Analysis in Algerian Dialect through Automatic Annotation with VADER".
- Contributed to the competition paper and poster "dzStance at StanceEval2024: Arabic Stance Detection based on Sentence Transformers".
- Earned a certificate of participation for completing the JA Company Program.
- Thesis:
  - Completed an exceptional thesis in French titled "Assessment of Ooredoo's Competitive Position in the Algerian Market through Customer Sentiment Analysis using AI", receiving a "Very Good" garde of 17.75 out of 20.
  - Published a scientific article related to the thesis and presented it at conferences.

WORK EXPERIENCE

Trainee, Electronics Department
January 2023 - May 2023
Advanced Technologies Development Center (CDTA), Baba Hassen Algiers, Algeria

I Completed a 5-month internship as part of my end-of-studies project at the Advanced Technologies Development Center (CDTA) in Baba Hassen, Algiers.

Project: "Design and Implementation of a Web & Mobile Text to Braille Translator"

- Collaborated with university colleagues to develop the application titled "DotWise.online."
- Implemented innovative solutions for creating a web and mobile platform that translates text into Braille.
- Gained hands-on experience in project management, teamwork, and application development in a professional setting.

Trainee, Computer Science Department
June 2023 - December 2023
MEDICAL GALAXY, Bouzareah Algiers, Algeria

I Completed a 6-month internship at Medical Galaxy a limited liability company located in Bouzareah, Algiers.

Role: Computer Technician

- Worked as a computer technician, gaining practical experience in troubleshooting hardware and software issues.
- Managed and processed data related to surgical medical materials.
- Acquired hands-on experience in the field of healthcare informatics, contributing to the efficient handling of medical data.

Key Contributions:

- Successfully resolved technical issues, ensuring the smooth operation of computer systems.
- Applied computer science skills to process and analyze data related to surgical materials, contributing to the optimization of medical processes.
- Developed a solid foundation in healthcare IT and gained valuable insights into the intersection of computer science and the medical field.

Trainee, Data Mining Department
October 2024 - July 2025
Wataniya Telecom (WTA) Ooredoo, Ouled Fayet Algiers, Algeria

I Completed a 9-month internship as part of my end-of-studies project at the Wataniya Telecom (WTA) Ooredoo in Ouled Fayet, Algiers.

Project: "Assessment of Ooredoo's Competitive Position in the Algerian Market through Customer Sentiment Analysis using AI"

- Performed data analysis using sentiment analysis techniques tailored to Algerian dialect (Arabic NLP).
- Developed interactive dashboards and statistical tools to assess Ooredoo's market position.
- Designed and implemented an intelligent telecom-oriented chatbot.
- Built an automatic annotation system and implemented NLP pipelines adapted to Algerian dialect text processing.

Member, Scientific Club - ESI
January 2020 - March 2025
National School of Computer Science, Oued Smar Algiers, Algeria

Leadership and Project Involvement:

- Led the ESMS project, demonstrating organizational and leadership skills in coordinating activities within the Design department.
- Contributed to various design projects, including the creation of flyers, posters, and other promotional materials.

Competitions and Events:

- Actively participated in multiple competitions, including hackathons, showcasing problem-solving and teamwork skills.
- I Attended and contributed to various events and conferences organized by the club.

Key Contributions:

- Played a pivotal role in the Design department, creating visually appealing designs that effectively conveyed information and promoted club activities.
- Engaged in the ESMS project, demonstrating project management skills and the ability to work collaboratively within a team.
- Enhanced skills in design, leadership, and teamwork through active participation in club initiatives and competitions.

Instructor, University of Algiers 01
September 2025 - June 2026
BEN YOUSSEF BEN KHEDDA University 01, Algiers, Algeria

- Taught Algorithms and Data Structures to first- and second-year undergraduate Computer Science students.
- Delivered the Mathematical Logic module for second-year Computer Science programs.
- Instructed Data Visualization for Master's level (M2) students, with a focus on analytical and visual representation techniques.
- Prepared and delivered lectures, tutorials, and practical sessions aligned with academic curricula.
- Designed assessments, evaluated student performance, and supervised practical assignments and projects.

Instructor, GOMYCODE
October 2025 - Present
GOMYCODE, Bab Ezzouar Algiers, Algeria

- Deliver instruction in Full Stack Web Development, Data Science, and Artificial Intelligence across bootcamps and skills-based programs.
- Design and facilitate hands-on training sessions, combining theoretical foundations with practical, project-oriented learning.
- Mentor learners throughout intensive bootcamps, supporting skill acquisition in web technologies, data analysis, machine learning, and AI fundamentals.
- Contribute to curriculum delivery and continuous improvement of training content aligned with industry needs.
- Evaluate learner performance through projects, assessments, and technical reviews, ensuring competency-based outcomes.

TECHNICAL SKILLS

Programming languages

- C, C++, JAVA, Flutter (Dart), XML,
- HTML, CSS, JS, PHP, React JS, Typescript, Next JS, Vue JS, Three JS, Express JS, Node JS, SQLite, MYSQL, ORACLE, Spark, Hadoop, MongoDB, Rest API,
- Matlab, R, Python (TensorFlow, Keras, PyTorch, Streamlit, Pandas, ...),
- JAVA Swing, JAVA Awt, UML,
- Lex, Flex, Bison, Yacc, MIPS R3000, LaTeX

Tools and technologies

- Zotero, Overleaf
- RStudio, VS Code, Eclipse IDE for Java Developers, CodeBlocks, PyCharm, WampServer, Oxygen XML, Spyder, Anaconda Navigator, SQL Developer, Cisco Packet Tracer, Jupyter Notebook,
- Visual Paradigm, PowerAMC, StarUML, CANVA, Prezi Next, FlexSim Healthcare, FlexTerm,
- Mars4_5, Logisim, QtSpim, Anydesk, Oracle VM VirtualBox (Windows, Linux, MacOs), GitHub, Kaggle,
- Microsoft Office (Word, Excel, PowerPoint, Access, Publisher, Sway), IBM SPSS Statistics, Adobe (Acrobat DC "PDF", AI, PS), Power BI.

LANGUAGES

- **Arabic & Kabyle : Native Language**
- **French : Reading, Speaking and Writing**
- **English : Reading, Speaking and Writing**

NATURE

Innovative and precise, I approach challenges with creativity and methodical precision. Adaptable and autonomous, I prioritize results and thrive in various situations. Collaborative and reliable, I excel in team environments, demonstrating effective communication and a strong sense of responsibility.

FACEBOOK

INSTAGRAME

LINKEDIN

X (TWITTER)

KAGGLE

GITHUB

GOOGLE SCHOLAR