

Souhail Idris Chenaoua

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Education & Qualifications

King Fahd University of Petroleum and Minerals

Dhahran, KSA 2017 - 2023

BSc Computer Science with Artificial Intelligence

Modules: Programming & Algorithms; Mathematics for Computer Science; Computer Fundamentals; Systems & Architecture; Fundamentals of Artificial Intelligence; Software Engineering; Databases & Interfaces

Technical Skills

Programming Languages known & Other Skills:

- Java
- Python
- Assembly
- Web-dev (HTML, CSS, JavaScript)
- Solidity
- Design & Analysis of Algorithms.
- Utilization of Data Structures.
- SQL- RDBMS and database theory
- Flutter
- Angular & ASP.NET

Work Experience

Emdad Al Khebrat – Web Developer & Data Engineer

Riyadh, Saudi Arabia Nov2023 – Present

- Engineered an interactive web dashboard (<https://nlo.gov.sa/landing/interactive-reports/Distributionoperators>) using Angular, focusing on responsive design and dynamic data visualization with ApexCharts to enhance user interaction and data accessibility.
- Developed and integrated secure RESTful APIs using ASP.NET Core, utilizing JWT for authentication and Entity Framework for ORM, significantly improving data retrieval and manipulation efficiency
- Designed a robust data handling module to facilitate efficient data uploads to a SQL database, implementing advanced error handling and data validation to ensure data integrity and security.
- Initiated the transition from outsourced to in-house development for the National Labor Observatory project, establishing a dedicated environment that supports robust code quality management, rigorous testing, and seamless production deployments.
- Collaborated with the **International Labour Organization (ILO)** in Italy to align dashboards and data visualization solutions with global labor market standards.

Amwal Tech – Flutter Developer

Riyadh, Saudi Arabia July2023 – Oct 2023

- Developed and released an open-source Flutter package/plugin for integrating Amwal payment methods (https://pub.dev/packages/amwal_pay). Including documentation for usage to easily incorporate the Amwal payment methods.
- Enhanced developer resources for JustPassMe (<https://www.justpass.me>), improving usability and fixing critical issues in documentation.

Taurus - Intern - Software Developer

Jeddah, Saudi Arabia June2022 – Aug2022

- Prepared software requirement specifications for a real estate investment application.
- Designed a cross-platform mobile app interface in Figma and developed a Flutter beta version, integrating Firebase for analytics and data retrieval.

Projects:

ETL Pipelines for Data Engineering:

- Built scalable ETL pipelines using SSIS to automate data extraction from SQL databases and APIs, transform raw data into actionable insights, and load it into SQL databases for seamless integration with Power BI dashboards.
- Implemented advanced data validation and error-handling mechanisms, ensuring high-quality datasets for real-time reporting, supporting key metrics like Localization rates and demographic segmentation.

Job Occupation Mapping Dashboard:

- Developed an interactive public dashboard, mapping university majors to related occupations and salary trends, showcased at the Jazan Career Forum and accessible on the HRDF platform ([View Posts](#)).
- Integrated data on average starting salaries for Saudis and active employee salaries, providing career planning tools for students and actionable insights for policymakers.
- Designed a responsive, user-friendly interface, enabling dynamic filtering and visualization for real-time exploration of labor market data.

Senior Project (Angular) - BaseTeam:

- Developed a senior project proposal for making a web application, a software tool for the human resource department. It is a product intended to expedite hiring processes <https://baseteam.io/>.
- Prepared software requirement specification, senior design, senior project report document(s).

Languages

- Arabic - Native, English – Advanced Second Language.