Sarra Chaker

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EDUCATION

TEK-UP University **Ariana, Tunisia**
Software Engineering *2018 - 2023*

Valedictorian for the years 2018-2019 and 2021-2022.

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, PHP
Libraries and Tools: Git, Docker, Pyspark
Frameworks: Flask, Spring Boot, Symfony, ExpressJS, JavaFX, .NET, Bootstrap
Databases: MySQL, MongoDB, SQLite, PostgreSQL

WORK EXPERIENCE

Software Engineer
Lade GmbH, Mainz, Germany (Remote) *March 2022 - Present*

- Developed a decision maker module for a charging orchestrator, enabling efficient and automated charging decisions using renewable energy share.
- Created events and ensured seamless communication with IoT devices.
- Designed and implemented mock applications to simulate real-world scenarios, leveraging websockets and applying industry-standard design patterns.
- Released communication capabilities with mock apps for comprehensive testing and validation.
- Conducted thorough testing and quality assurance to ensure software reliability, stability, and security.

Keywords: C++, Cmake, Python, Pandas, Spark, MongoDB, PostgreSQL, Power BI

Trainer in Python and JavaScript
TEK-UP University, Ariana, Tunisia *August 2020 - February 2022*

- Trained candidates for Python Institute's PCEP and PCAP, and Microsoft's MTA 98-381 and 98-382 certifications.

Engineering Internship
Ooredoo Tunisie, Ariana, Tunisia *August 2021*

- Conceptualized and developed a dynamic web tool enabling real-time currency conversion and visualization of exchange rate trends, enhancing user experience and financial decision-making capabilities.

Keywords: Python, PHP (JPGraph), JSON, JavaScript, Bootstrap

Engineering Internship
IT SERV, Menzah 4, Tunisia *July 2021*

- Developed a desktop application that generates Java classes and instances from XML and JSON files.

Keywords: Java, JavaFX, JDOM, JAXB, Jackson, XML, JSON

CERTIFICATIONS

- PCAP – Certified Associate in Python Programming   - Python Institute
- PCEP – Certified Entry-Level Python Programmer   - Python Institute
- 98-382 MTA: Introduction to Programming using JavaScript   - Microsoft
- 98-364 MTA: Database Fundamentals   - Microsoft
- 98-383 MTA: Introduction to Programming using HTML and CSS   - Microsoft

PROJECTS

- **Web application for CV pre-screening**, A web application that predicts CV categories, extracts information, and detects resumes matching job offers. Keywords: Python, Flask, Jinja2, SQLite3, Bootstrap, JavaScript, CSV
- **ChatBot for decision support based on Wikipedia**, Keywords: Python (BeautifulSoup, Requests, Pandas, Numpy, Keras), Flask, JSON, JavaScript, HTML, CSS
- **Web application for breast cancer prediction**, A web application for breast cancer prediction that identifies potential cases and lists specialist doctors in Tunisia, integrating an intelligent chatbot. Keywords: Python (Selenium, Pandas, Numpy, NLTK, Pytorch, scikit-learn, seaborn, matplotlib), Flask, Jinja2, SQLite3, Bootstrap, JavaScript, JSON, CSV
- **E-commerce site based on web scraping**, A website that compares electronic products from various stores to find the best deals and allows users to place orders with the chosen supplier. Keywords: Symfony, Python (Pandas), SQLite3, MySQL, CSV
- **Product Comparator**, Keywords: PHP, Python (BeautifulSoup, Requests), JSON, MySQL, JavaScript, HTML, CSS

LANGUAGES

Arabic (Mother tongue) - **French** (Bilingual) - **English** (Fluent) - **Turkish** (A2 level)