

Marouane Skandaji

<https://marouanes.github.io/devportfolio/>

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EDUCATION

- **University of Pécs** Pécs, Hungary
Bachelor of Science in Computational Physics *Sep. 2015 – Jun. 2021 (unfinished)*
- **University of Tunis El Manar** Tunis, Tunisia
Bachelor of Applied Science in Information Technology *Sep. 2014 – Jun. 2015*

EXPERIENCE

- **ThermoFisher Scientific** Budapest, Hungary
Data Engineer - Software Developer *Sep 2022 - Feb 2023*
 - **Spark, Kafka, and Databricks:** Maintain scalable data pipelines and API integrations to support continuing increasing data volumes and complexity.
 - **AWS:** Develop and deploy highly available, fault-tolerant software that will help drive improvements towards the features, reliability, performance, and efficiency of the Enterprise Data Platform and ThermoFisher Services Central.
 - **Team development:** Actively review code, mentor, and provide feedback.
 - **Postgres, Elasticsearch, and Dynamo:** Engineer efficient, adaptable, and scalable architectures for all stages of the data lifecycle (ingest, streaming, structured, unstructured storage, search, and aggregations) in support of a variety of data applications.
 - **FastAPI, TypeScript, and Docker:** Build abstraction and reusable developer tooling to allow other engineers to quickly build streaming/batch and self-service pipelines, among other internal support applications and APIs.
 - **GitHub Actions, Jenkins, and Kubernetes:** Build, deploy, maintain, and automate large global deployments of data products and services.
- **Ericsson AB** Budapest, Hungary
Big Data Engineer - Software Developer *Sep 2021 - Sep 2022*
 - **Spark, and Scala:** Developing software solutions for processing large datasets leveraging reusables patterns to expedite developer productivity.
 - **Airflow, and Kubernetes:** Design and monitor batch or streaming jobs, maintain ELT-ETL processes and data pipelines.
 - **Grafana, and Prometheus:** Monitor and visualize KPIs and metrics
 - **ReactJS, and Plotly:** Developing our own internal tools for data visualization and data exploration.
 - **Hive, HDFS, Drill, and Impala:** Foresee and manage Integration tools, databases, warehouses, and analytical systems for customer radio analytics.
 - **Python, and Go:** Developing and maintaining microservices for data ingestion and data profiling.
 - **ArgoCI, Jenkins, and GitLab CI:** Build Integrations and Continuous Deployment
- **Vetsbook** Tunis, Tunisia
Software Engineer *Dec 2020 - July 2021 (Volunteer)*
 - **Pre-seed:** Overseeing Infrastructure, the company's data, and security. Ensuring a strategic technological implementation.
 - **Django, Angular, PostgreSQL, and MSSQL:** Developing the core backend services and APIs for the platform.
 - **Azure DevOps:** Scaling the platform and managing the infrastructure on Azure cloud.
- **URBEN & Co** Tunis, Tunisia
Software Engineer *Sep 2018 - May 2019 (Volunteer)*
 - **Product Development:** Developing and maintaining a product, designing and implementing new features, solutions on cloud platforms.
 - **DataOps:** Primary responsibilities include using services and tools to ingest, egress, and transform data from multiple sources.
- **Winkler GmbH** Heidelberg, Germany
Embedded Systems Intern *Jun 2017 - July 2017*

- **Port of an embedded system:** port of an embedded system from a 16-bit microcontroller to a 32-bit microcontroller.
- **Embedded Systems:** Design and implementation of a real-time embedded system for a flexible electrical heating system.
- **Test Automation:** Ship and build automation for embedded systems.

PROJECTS

- **Gitorade:** Open source python library for re-formatting git commits. making the world a better place one commit at a time.
- **ERPNext:** ERPNext as a monolith for managing businesses. Its a Free and Open Source Alternative to SAP. I have contributed a bit.
- **Serverless ordering system:** A project aiming at using Amazon Web Services products for building Data-Driven Serverless Applications with Kinesis.
- **IMDB-rating-classifier:** A python application that scrapes data from IMDB and adjusts the rating system according to some validation rules (review penalization).
- **TakeOff:** A platform to empower your bussiness to take off. It is a cloud solution for digitalizing SMB processes.

PROGRAMMING SKILLS

- **Languages:** Python, C++, SQL, NoSQL, Java, TypeScript, JavaScript, Scala, , C, R, Matlab, Lua, Go, Rust, Scripting in many languages...
- **Technologies:** K8s, Flink, AWS, Azure, Grafana, Tableau, Hbase, Redis, MongoDB, Iceberg, Redshift, Impala, Hadoop, Luigi, Docker, MinIO, Cloudera, Databricks, PostgreSQL, MySQL, MSSQL, Oracle, Apache Drill, Dask, Apache Kafka, Apache Spark, Apache Airflow, ... etc.