ATTIA AXEL

JUNIOR FUNCTIONAL ENGINEER

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CAREER OBJECTIVE 🔍

After six months' experience as a software developer in Geneva and a diploma in IT engineering in the health sector, I know how to put myself at the service of a group to develop a product. My aim is to join a pleasant, innovative company where I can contribute my skills and energy.

EDUCATION 🔍

skills sheet

Diploma in Health Information Technology Engineering, specialising in Intelligent and Innovative Medical Devices   2020 – 2023

Polytech Grenoble INP, France

Studied object-oriented programming, **databases**, information systems modelling, signal processing, **data processing**, machine learning, image processing, healthcare knowledge, etc.

- **Project management assistance** of a helmet-mounted medical device for children with Smith-Magenis syndrome.
- **Hospital Information System** development projects with Agile method.

Preparatory classes for engineering studies   2019 – 2020

Polytech Marseille, France

Studied mathematics, physics, English, engineering sciences, computing.

Two years of medical school   2017 – 2019

University of Medicine Marseille, France

Anatomy, physiology, neurology, analysis methods, medical devices etc.

VOLUNTEER PROJECTS 🔍

• Participated in several **hackathons** in the summer of 2023 with student researchers in Switzerland and Montreal (OHBM):
–Development of EEG analysis report.
–Development of functional MRI analysis reports.

• **Business development** at LINKO Junior Entreprise for 2022 – 2023: sales prospecting, customer relationship management, development and management of offers.

• Proof-of-concept for a **helmet-mounted medical device** for children with Smith-Magenis syndrome (2022)

• President of a 35-member student list for student office campaigns (2021-2022)

SKILLS 🔍

Languages: native french, English (advanced). Linguaskill diploma level C1+.

Languages and IT tools: HTML, CSS, **Python**, Javascript, **JAVA**, Matlab, **Docker**, Git & **Github**, Linux, SQL, R, Visual Studio Code, Netbeans.

Professional skills: Drawing up specifications, good analysis of situations involving several factors, **management**, communication, **agile method**.

Qualities: **Energetic**, curious and **autonomous**.

Junior Software development Engineer   March 2023 to September 2023

Campus Biotech Geneva (FCBG) – Geneva, Switzerland

Developed and implemented a **neuroimaging platform** for the long-term storage and analysis of **research data**.

- Implemented an **Agile Scrum** methodology in two-week sprints with the Methods & Data team.
- Participated in the piloting, deployment and integration of a **healthcare IT solution**, notably through user meetings and sprint meetings.
- Ensured data validation in this solution by automating compliance with neurological data standards.

-Implemented **automated data validation** through open-source Docker images used by   scientists. The workflow included Visual Studio Code, Github, Dockerhub, Json and running on Linux.

-Used and documented an **open-source** tool to automate the verification of a new application on the platform.

- Creation of two new applications to visualize **dynamic reports** for quality control of processing steps.

-Implemented appropriate solutions in Python to meet researchers' needs in terms of neuroimage visualization.

-Used open-source tools developed by the scientific community and proposed my own modifications.

- Documented and pushed my applications on Github.

Junior data analyst   May 2022 to August 2022

CNRS – Institut Pasteur, Marseille, France

Implemented a high-throughput microscopy image processing and analysis pipeline to improve the segmentation and classification of multiple sclerosis neurological cells.

- Implementation of a **deep learning** image processing pipeline to collect data.
- Processing data with **machine learning** to find the most effective results.

Technologies used: Python, Cellpose, ImageJ, Arivis.

Analyse des besoins des hôpitaux – 2 stages   April 2022 and June 2021

Grenoble University Hospital, France

Observing and helping medical teams to transmit their data.

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- Observed the prescription chain for a biological examination, from the patient's sample to the deviation in the laboratory's mechanical chain. Then described the process for retrieving the results from the hospital's application.
- Observed a brain scan, from the team's decision at the RCP (multidisciplinary consultation meeting) to the department carrying out the procedure.
- Collected the opinions of healthcare professionals and their medical needs.
- Compared the medical information software available.
- Proposed a new fictional interface to meet the problems encountered.

Digital art: Blender, creative programming, Adobe suite, generative ia.

Computer music: Compositions on Logic Pro X.

Sailing: Internships at the Glénans sailing school.

Theater: 7 years of theater lessons.

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