JOHN ALEXANDRE MURRAY

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Passionate, analytical and result driven petroleum industry professional with over half a decade's worth of laboratory testing and graphical analysis expertise and background skills in programming to improve workflows seeking to integrate scientific and technological skills and grow further. Proficient in both gas chromatography instrumentation, methods and SOPs, enhancing the quality assurance of a web application platform service, developing automated test cases, and large data and file handling. Possess a strong foundation in scientific methodology, both wet and dry laboratory work, laboratory safety, graphical analysis and analytical testing. Securely living in Austria without a need for sponsorship under a family visa (Familienangehöriger).

SKILLS

- Programming Languages: Python, Javascript, C++, C#, Html, CSS
- Cypress, Jenkins, Jira, Confluence, Git, Bash, Linux

- M3 | M4 Reformulyzer, HPLC, FTIR/NMR Spectroscopy, Titrations, Karl Fischer

- Team Player, Strong Communicator, Effective Problem Solver, Excellent Time Management, Heavily Driven
- English (Native), German (A2 - [B1 in progress]), Chinese - Mandarin (B2), Spanish (A2)

MOST RECENT WORK EXPERIENCE/PROJECTS

Projects (more in GitHub link above):

WebsitePortfolio – Refactored a website portfolio design template with HTML5, CSS3 and Javascript into my own and self-hosted through GitHub Pages.

Software Engineer in Test (SDET/SET)
Cyara – Botium | January 2023 - August 2023
Software Developer Engineer in Test

- Worked on and developed both manual and automated software testing projects for a web application.
- Ensured the quality of bug fixes, features (both new and old), defect identification and reporting.
- Reviewed code to analyze user stories, requirements and epics.
- Identify opportunities to improve surface risks from deliverables.
- Undertook regression, acceptance, integration, and performance testing.
- Chatbot and chatbot connector quality checks.
- Code review with developers to determine underlying changes in functionality.

Chemical Analyst
Bureau Veritas | April 2021 - December 2022
Gas Chromatography, HPLC and Reformulyzer Specialist

- Interpret graphical analyses from chemstation software data to provide numerical insight for R&D on valuable petroleum gas and liquid production, as well as report data.
- Petroleum gas and liquid testing through GC/Reformulyzer/HPLC instrumentation.
- Troubleshoot and solve on-site data handling issues.
- Development and augmentation of software methods in accordance with test SOP.
- Software import and export file management - enhanced workflow with Python scripts.

- Standards of procedure (SOP) documentation development

Laboratory Technician
ALS Tribology | April 2017 - July 2020
FTIR/IR Spectroscopy Specialist

- Run and test petroleum fuels/oils for various clients as well as record/track/trace samples through SAM program and Microsoft suite
- Operation and maintenance of FTIR and Automatic titrimetric titration instruments
- Provide clients with reports on their requested test samples with an average two day turnaround time.
- Handling multiple volatile chemicals and test samples and synthesized solvents including but not limited to: Chloroform, toluene, isopropyl alcohol, hydrochloric acid, potassium hydroxide.
- Shift chemical safety representative for JHEC meetings

- In-depth knowledge of FTIR/IR/NMR spectroscopy graphical analysis, Base and Acid number titrations, Karl Fischer, ICP, Viscosity testing

Southern New Hampshire University
BSc in Environmental Science w/concentration in Geospatial Information Systems (GIS)