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Qualifications & Skills:

▪ 7 GCSE's at grade B or higher.

▪ BND Music (BTEC National Diploma) (x3 A-level equivalent)

▪ **Hobbies:** *Music, Photography, Cooking, Travel, Technology*

▪ **Programming:** *Python, PyQt, PySide, Pandas, Numpy, matplotlib, C++, Qt, JUCE, CMake, Git, Django, Flask, PostgreSQL, REST APIs, scipy, scikit-learn, Altair/Vega, SQL, SQLAlchemy, QtCharts, PyQtGraph, PyGame, VBA, JavaScript, HTML, CSS, AGS, Powershell / Terminal, Object-Orientated Programming (OOP)*

▪ **Software:** *Windows, VSCode, QtDesigner, Photoshop, Reason, Reaper, Davinci Resolve, OBS Studio, QGIS, Excel, Office*

▪ *Geoquip Marine – Software Engineer – Bristol - March 2021 – current*

  – Develop, maintain and test portable desktop applications built with Python / PyQt / PySide / QtDesigner / SQL and VBA / Excel

  – Data set manipulation, statistical analysis and parameter derivation using Pandas and numpy

  – Signal processing using filters with scipy, scikit-learn and numpy

  – Data visualisation with pyqtgraph, matplotlib, QtCharts, plotly, PowerBI, JavaScript

  – Version control using Git/GitHub desktop and documentation

  – Data management and deliverables for project reporting, including geospatial GIS

  – Database frameworks using Django / Flask, PostgreSQL / SQLite3

  Projects:

  Delay-ja-vu

  - Real-time DSP audio plugin using C++, JUCE and CMake

  - Compiles to standalone .exe or VST3 plugin

  - Processes an audio signal with stereo delay, chorus and reverb

  - Low-pass, high-pass and all-pass filters

  - Animated GUI with Input / Output visualizers and value arcs

  - Smoothed value transitions with interpolation and one-pole filters

  AGS GUI

  - GUI made to view/edit/process AGS4 data using Python, PyQt, Pandas

  - Custom views and models with subclassed widgets promoted in QtDesigner

  - TableViews function like excel spreadsheets to view and edit data, with copy & paste, keyboard inputs and custom ContextMenus to manipulate data, models and views

  - SQL queries with pyodbc and SQLAlchemy to "match" sample data to an access database

  - Counts results per test type, distinguishing between onshore and offshore results and checks the file for errors using the AGS standard with python-ags4

Swift Ripper
- GUI to parse and process results from offshore Cone Penetration Testing using Python, PyQt, Pandas, matplotlib and groundhog
- Uses pyqtgraph to edit CPT data in an efficient real-time environment
- Calculates derived geotechnical parameters using soil and geology profiles with groundhog, including soil behavior classification with Robertson charts
- Uses linear regression with scipy and numpy, to remove outliers on both dependent and independent statistical analysis models
- Creates PDF reports with matplotlib, QtCharts and reportlab

Hospitality (*the past life*):
- Chef de Partie - *Harvey Nichols 2nd Floor* - Bristol - June 2019 - Jan 2021 (UK)
- Sous Chef - *Craft Bierhaus* – Revelstoke - Aug 2018 - March 2019 (CAN)
- Chef de Partie - *112 Restaurant* - Revelstoke - Nov 2017 - Aug 2018 (CAN)
- Sous Chef - *Fiddle River* – Jasper - March - Nov 2017 (CAN)
- Chef de Partie - *Best Western* - July 2016 - Jan 2017 (UK)
- Demi Chef - *Eagle Bay Brewery* - Dunsborough - Sept 2015 - Feb 2016 (AUS)
- Demi Chef - *Pullman Bunker Bay* - Dunsborough - June 2015 - Sept 2015 (AUS)
- Pasta Chef - *Ruffinos Pizza* – Paihia - Nov 2012 – Jan 2013 (NZ)
- Kitchen hand - *Waterside* - Lake Taupo from January - Aug 2012 (NZ)
- Kitchen hand - *Pier 19* – Queenstown - March 2011 - Aug 2012 (NZ)
- (50 months) part-exchange for accommodation (NZ & AUS 2011- 2016)
- Self-employed musician - Cyprus - 2009