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 **GitHub:** github.com/lachesis17

 **Portfolio:** lachesis17.github.io/portfolio



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, AWS, REST APIs, scipy, scikit-learn, Altair/Vega, SQL, SQLAlchemy, QtCharts, PyQtGraph, PyGame, VBA, JavaScript, HTML, CSS, AGS, Powershell / CMD Terminal*
- **Software:** *Windows, VSCode, QtDesigner, Photoshop, Reason, Reaper, Davinci Resolve, OBS Studio, QGIS, Excel, Office*

Data:

- **Geoquip Marine** – Junior Data Engineer – Bristol - March 2021 – current
 - Develop, maintain and test portable desktop applications built with Python / PyQt / QtDesigner
 - Develop/maintain in-house tools utilising VBA, SQL and Excel
 - Data set manipulation, statistical analysis and parameter derivation using Pandas and Numpy
 - Data visualisation with pyqtgraph, matplotlib, QtCharts, PowerBI, Altair / Vega / JavaScript
 - Version control using Git/GitHub desktop and documentation
 - Data deliverables for project reporting in formats including GIS, .ags, borehole logs
 - Data management and QA/QC of offshore/onshore laboratory testing and scheduling
 - Database frameworks using Django / Flask, PostgreSQL / SQLite3

PyQt projects:

AGS GUI

- GUI made for viewing, editing and processing AGS4 data format
- Uses a subclassed QAbstractTableModel and QTableView, promoted in QtDesigner
- TableViews function like excel spreadsheets to view and edit data
- Parses AGS4 data into Pandas dataframes
- Qt.CustomContextMenus to manipulate data, with edits applied to the original dataset
- 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
- Checks the file for errors using the AGS standard with python-ags4

AvgCPT

- GUI that gives averages and statistical analysis on Cone Penetration Testing
- Utilises object-orientated programming to perform linear regression with scipy and numpy, to remove outliers on both dependent and independent stat analysis models
- Creates PDF reports with matplotlib, with profile/design lines from the stat analysis class
- Averages values for selected depths and parameters within a geological layer
- Uses pyqtgraph to plot individual CPT parameters and trims them with a pg.InfiniteLine

Hospitality:

- 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