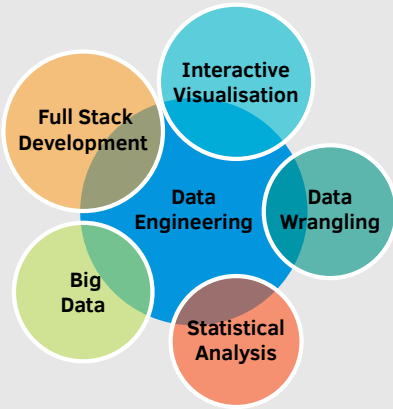


JACK MCKEW

Electrical Engineer
Software Developer
Data Scientist



Skills Overview



Tools



Programming Experience

Python • SQL • HTML & CSS • Node.js

VBA • React • C & C++

R • PHP • Java

NoSQL • Bash • Flutter

Interests



Experience

2020 - Now **Founder & Principal Consultant**

Cyberlytica

- Freelance digital services company specialising in data services.
- Services include data analytics, visualisation & automation.
- Full stack development, packaging and distribution of solutions.

2020 - Now **Senior Software Engineer**

Deckee

- Responsible for delivering full stack data analytics, visualisation and automation of waterway & app usage.
- Delivered key features for keeping boaters safe on the water including: alerts, map tile servers, log trips and log on log off.
- Designed, developed and delivered a search and rescue platform solution with a successful real world trial in Western Australia.
- Pioneered new methodologies to capture and analyse user behaviour through phone sensors to guide government bodies to keep their communities informed on the water.
- **Tools:** Nodejs, React, Python, git, Docker, AWS, Cordova

2022 - Now **Senior Software Engineer**

Arrowtail

- Responsible for integrating Arrowtail's explosive delivery capture app with on-site inventory management.
- **Tools:** Python, FastAPI, RabbitMQ, git, Docker, Azure

2017 - 2020 **Electrical Engineer**

AECOM

- Development of scientific computing software for environmental data sets.
- Saved approximately 900 working hours through automation.
- Pioneered and lead an Australia wide Microsoft Excel training session.
- Lighting design, lightning protection system design, PLC network design.
- Reticulation design, switchboard & switch room design.
- Construction support for defence & education projects and site inspections.
- Electrical drafting in AutoCAD and Revit.
- **Tools:** Python, git, VBA, AutoCAD, Revit, MySQL, Plotly, Bokeh, Pandas

Education

2015 - 2018 **Bachelor of Electrical Engineering**
with Honours

University of Newcastle

2014 **High School Certificate**

Belmont High School

Open Source Projects

Pandas_Alive

Creator

- Create stunning, animated visualisations with Pandas & Matplotlib as easy as calling 'df.plot_animated()'.
- Over 15,000 downloads & 120 stars on Github in the first 4 weeks of release.

PyInstaller Action Windows /Linux

Creator

- Github Action for building executables from Python code with PyInstaller.

Previous Projects

Air Quality Toolkit

AECOM Internal

- Developed, packaged and distributed software to automate tasks reducing a week long task to seconds.
- Developed re-sampling tooling such that high frequency atmospheric data can be used in models.
- Built interactive data visualisation tooling to communicate data with clients.
- **Responsibilities:** Full stack development, packaging, distribution

In Home Appliance Scheduler Using Home Area Network Engineering Thesis

- Designed, developed and constructed a home area network capable of monitoring and controlling appliances in accordance with an optimized schedule.
- **Responsibilities:** Embedded development, networking, databases, algorithm design, technical writing, data analysis, Android app development