

JACK MCKEW

Software Engineer
Data Scientist & Engineer



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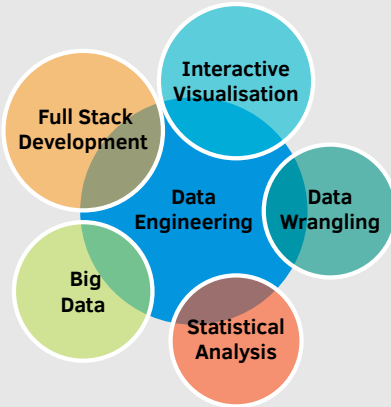
/in/jack-mckew



JackMcKew

Skills

Overview



Tools



Pandas Numpy Gooley
GIS Sklearn NLTK NodeJS



SQL NoSQL AWS GCP



Matplotlib Bokeh Plotly
PowerBI QT5 D3 QGIS



git TravisCI Netlify
Github Actions AWS

Programming Experience

Python • SQL • HTML & CSS • Node.js

VBA • React • C & C++

R • PHP • Java

NoSQL • Bash • Flutter

Interests



Experience

2020 - Now **Senior Software Engineer & Data Analytics Manager**

[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: weather alerts, safety information through map tile servers, automatic on the water detection 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, Android, iOS

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.

2024 - Now **Technical Writer**

[Galah Cyber](#)

- Responsible for compiling, editing and delivering technical penetration test reports to clients.
- Accountable for documenting vulnerabilities and remediations in clear, concise manner.
- **Tools:** LateX, Python, Git

2022 **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

Education

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

[University of Newcastle](#)

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.

Notable Projects

Deckee Analytics

[Deckee](#)

- Designed, developed and delivered a full stack interactive visualisation platform with Auth0.
- Built the data collection, annotation, storage and query capabilities to capture events from user devices, capturing billions of data points per year.
- Pioneered anonymisation techniques to protect user privacy for sensitive information.
- Strategised and implemented new methodologies for communicating data analysis to an industry.
- **Responsibilities:** Full stack development, data engineering, AWS

On the water detection

[Deckee](#)

- Developed and implemented a system to identify geolocations to be on the water, handling 100 locations per second.
- Automatically enabled safety features including weather alerts, sharing location with safety contacts, logging on with marine rescue.
- Designed to directly contribute to analytics product offerings through data annotation.
- **Responsibilities:** Asynchronous processing, data annotation, orchestration