Jack Wardell

Data Engineer / Software Engineer

CV @ https://www.jackwardell.co.uk GitHub @ https://github.com/jackwardell LinkedIn @ https://www.linkedin.com/in/jackwardell

Profile

ONE-LINER

I am a resourceful, curious and pragmatic software developer who genuinely enjoys learning, solving and building.

SUMMARY

- Python developer and software engineer specialising in data engineering (e.g. SQL, Pandas, Numpy, Sklearn) and full stack web development (e.g. Flask, Bootstrap4, JQuery, SQLAlchemy, PostgreSQL, Docker)
- Open source developer: packages on pip, many projects and repos on GitHub and contributions to open source libraries like Flask
- Technical experience in: data ingestion (e.g. scraping, websockets, APIs), databases (e.g. PostgreSQL, Redis), mission-critical
 applications, webdev, REST APIs, TDD, end-to-end testing (e.g. Selenium), DevOps & CI/CD, diagnostics, Docker and
 microservices
- Extensive knowledge of: agile frameworks (e.g. Kanban, Scrum), the lean startup approach, OKRs and mutual learning
- Hands-on experience with cloud and other technologies: Azure, AWS, Heroku, Tableau, PowerBI, Alteryx, Streamsets and GitHub
- Values: simplicity, courage, respect, compassion, curiosity, transparency, customer collaboration, feedback and adapting to change

LOOKING FOR

- The ability to deliver value to the customer and business
- · Exciting new challenges
- A highly collaborative, cross-functional agile team
- · A non-hierarchical and psychologically safe working environment

Employment History

AI ENGINEER AT SHELL: Dec 2019 - Present, London

- Role: Promotion from previous role after comprehensive training in machine learning (e.g. Udacity), in the same team
- Delivered:
 - o Ad-hoc model creation and model deployment on Azure
 - Feature selection and hyperparameter tuning in kubernetes
 - o A self-service Flask webapp that allows users to build machine learning models with a UI
 - o Migration of monolithic codebase to microservices in kubernetes

DATA ENGINEER AT SHELL: June 2018 - Dec 2019, London

- Role: On-site consultant data engineer in ScrumBan agile team, using lean start-up approach and collaborating with the customer weekly
- Business Aim: To optimise internal customer decision making by applying machine learning to various discrete signals from multiple sources
- Delivered:
 - o Version control & CI/CD
 - Data ingestion from multiple sources, processing & persistence
 - A machine learning pipeline
 - A mission-critical advanced web application
- Stack: Python, Flask, SQLAlchemy, Pandas, Numpy, Sklearn, Git, Docker, Jenkins, Azure, PostgreSQL, Redis, Blob, HTML, CSS, Jinja2, Javascript, JQuery, Bootstrap4, Kubernetes, Celery, Scrum, Kanban, Lean Startup, Mutual Learning, Jira, Slack, ACT and RFT

Internally awarded prizes within Shell: 'Code Masters Award', 'Downstream Directors Award' and the 'Increasing Profitability
In The Base Business Award'

BIG DATA ENGINEER AT KUBRICK GROUP: Feb 2018 - Present, London

- Role: Rigorously trained on-site for 4 months in the discipline of big data engineering; learning technical, business and soft skills
- Stack: Python, SQL (e.g. T-SQL, Microsoft SQL Server), NoSQL (e.g. MongoDB), Spark (e.g. Hadoop, Hive), Excel, GDPR and data security

Education

UCL: MSCI CHEMISTRY: London

- 3rd Year dissertation on 'Structural Defects in Metal-Organic Frameworks' under Prof. Ben Slater
- 4th Year advanced chemical project on 'Synthesis and Study of Exotic Magnets Engineering New Quantum States' under Prof. Andrew Wills
- Grade: 2.1

ABINGDON SCHOOL: Oxford

• A-levels: Chemistry A*, Maths A*, Further Maths B, Art A

Skills

KEY SKILLS:

- Data engineering: data ingestion, data pipelines, AI/ML engineering, data analysis, data modelling and machine learning
- Software engineering: back end & frond end engineering, databases, TDD, SOLID, APIs and design
- Agile & other methodologies: Scrum, Kanban, Lean, XP, OKRs, mutual learning and DevOps
- · Other: chemistry, maths, Microsoft Office, public speaking, horticulture, botany, tree identification and trading

LANGUAGES, LIBRARIES, ETC:

 Python, SQL, HTML, CSS, Javascript, Flask, JQuery, Bootstrap4, Jinja2, Pandas, Numpy, Scikit-learn, SQLAlchemy, PostgreSQL, Docker, Git and Click

Other

PROJECTS:

- Antipode Coefficient (https://www.antipodecoefficient.com/)
 - Built a website to calculate the antipode coefficient between two points. The basic idea is that two points can be described with a number between 0 and 1, where 1 represents a place being perfectly opposite on the globe
 - Stack: Flask, SQLAlchemy, Alembic, PostgreSQL, Heroku, Mapbox, GeoPy, GeoJSON, Gunicorn, Click, Bootstrap4, pytest, TDD, GitHub and JQuery
- The Urban Goose (https://the-urban-goose.herokuapp.com/)
 - Built a website for a friend to review restaurants in London with a rich map interface (in beta still collaborating with him)
- SlackTime (https://github.com/jackwardell/SlackTime)
 - Built a simple, fast and intuitive python package for the Slack WebAPI

LEARNING:

- Machine Learning Nanodegree Udacity
 - o Completed multiple projects on supervised and unsupervised learning, with Sklearn and PyTorch
 - Stack: Ensemble models, Bayesian models, SVMs, image classifiers, PCA, Scikit-learn, PyTorch, Matplotlib, Seaborn, Pandas and Numpy
- Accelerated Computer Science Fundamentals Specialization University OF Illinois at Urbana-Champaign (through Coursera)
- Easy to Advanced Data Structures William Fiset (through Udemy)