Reuben James Bishop

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Personal Summary

Product-minded software engineer with a strong interest in full-stack development and data science. Demonstrated ability to own the development and delivery of software products from end to end, and to lead effective software teams. I am eager to continue to develop my skills as a software engineer, and build delightful products.

Education

The University of New South Wales (2022 – Present) | GPA: 7.00/7.00 | Part time
- Graduate Certificate of Data Science

The University of Adelaide (2016 – 2020) | GPA: 6.25/7.00
- Bachelor (Honours) of Mechanical Engineering, *Awarded with First Class Honours*
- Bachelor of Mathematical and Computer Sciences (Computer Science Major*)*

Work Experience

iO Energy
Software Team Lead (*January 2022 – Present*) / Contract Software Engineer (*June 2021 – January 2022)*
- Lead the design and implementation of iO Energy's cloud-based energy retail management platform. Used to acquire and manage customers, and grow from 170 > 2000+ business and residential customers.
- Developed multiple core features and services, including customer onboarding APIs, bill comparisons services, commission management and billing systems (including Xero integrations). (React + Python on AWS).
- Managed a team of up to 4 full time and contract software engineers, and multiple interns. Planned development work, tasking, documented requirements and conducted code review sessions with team.
- Architected iO Energy's data infrastructure, based on a modern data stack with Snowflake, Dagster and DBT. Collected and organised data used to power core retail operations including customer billing, financial settlements and operations dashboards.
- Developed and deployed a load forecasting model for estimating customer electricity demand based on NeuralProphet with Python. Used to inform purchasing of energy futures contracts.

Lockheed Martin
Associate Software Engineer (*June 2021 – January 2022) /* Co-op Technical Senior (*June 2021 – January 2022)*
- Develop web application prototype for the management of internal training courses and employee certifications with a small team.
- Developed and maintained detailed hardware and software requirements for the Future Submarine Program in consultation with key internal and external stakeholders.

MaxMine
Undergraduate Data Engineer (*January 2019 – June 2021*)
- Developed surface mapping algorithm for visualising mine-site topology from point cloud data in 3D, improving the existing method by several minutes per analysis.
- Conducted case study to analyse haul-truck load and dump cycle accuracy. Formally presented results to executive management team and visiting commercial clients.
- Developed truth sets for haul truck operations used to train, validate and test live machine learning models in core MaxMine platform.

Projects & Awards

GovHack Hackathon Winner 2023 | https://github.com/reubenjamesbishop/govhack23
Competed against almost 200 teams in the Australia + New Zealand government data hackathon, building a freight analytics application with a small team. Winner of our primary challenge, and awarded runner up in another two competitions. (Python).

Kwack | *Medical Student Exam Preparation Platform (WIP)*
A platform to help medical students prepare for their final year practical OSCE exams. Received an AWS Activate Founders Grant in May 2022. (NextJS, TypeScript and Supabase/Postgres).

Skills & Certifications

Languages and Frameworks
Python, React, SQL (Postgres), TypeScript/JavaScript, HTML, CSS, AWS (Lambda, S3, DynamoDB, RDS, EC2, Athena), FastAPI, Flask

Certifications
AWS Cloud Practitioner (CLF-01), Certified Scrum Master (CSM)