Reuben Bishop

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Product-obsessed software engineer, with a passion for delivering solutions that delight customers.

Work Experience

Clipsal Cortex (acquired by Schneider Electric)
Senior Software Engineer *June 2024 – Present*

- Delivered core APIs and event-driven workloads with Django, Celery and AWS for live energy telemetry and pricing, powering the Cortex home energy management app used by 3,000+ active users.
- Built data pipelines and analytics dashboards in Python and SQL, enabling ML, operations and product teams to accelerate model training and derive actionable business insights.
- Contributed to design and implementation of a distributed energy management microservice in Go on Azure, enhancing scalability and reliability of control services.

iO Energy
June 2021 – June 2024
Lead Software Engineer

- Led a 5-person software team, defining requirements, managing tickets, and overseeing development and BAU operations across the company's energy retail platform.
- Managed end-to-end design and development of the core retail platform with Django, React, Terraform and AWS. Handled customer signups, onboarding, third-party sales agent tracking, payments, and energy hedge positions, scaling the customer base from 150 to 2,200+.
- Led development and maintenance of core cloud data warehouse and ETL pipelines with Snowflake, Dagster, and DBT, ensuring reliable analytics and reporting.
- Mentored junior engineers and managed multiple intern teams, providing technical guidance, code reviews, and support across projects.

Software Engineer (Part Time)

- Built and deployed ML pipelines for energy demand forecasting and hedging, improving operational decision-making.
- Built an automated bill comparison and signup workflow with React, Flask, and AWS, cutting manual onboarding time by 95% and boosting conversion rates.

Lockheed Martin
September 2020 – January 2022
Associate Software Engineer

- Led development of an internal React + Node.js app for tracking employee certifications and training across the organization.
- Analysed and maintained software requirements and systems models for the Australian Future Submarine Program.

MaxMine
June 2019 – January 2021
Undergraduate Software Engineer (Data)

- Curated datasets to train and validate production ML models, ensuring reliable performance in live environments.
- Developed a Python tool to visualize mine site topologies from point cloud data, enabling operations teams to analyse site layouts.
- Prepared and presented a case study on haul-truck cycle accuracy, providing competitive analysis for strategy and growth teams.

Education

The University of New South Wales
September 2022 – May 2024

- Graduate Certificate of Data Science (*GPA: 7.00/7.00*)

The University of Adelaide
January 2016 – November 2020

- Bachelor (Honours) of Mechanical Engineering (*GPA: 6.25/7.00*)
- Bachelor of Mathematical and Computer Sciences, Computer Science Major (*GPA: 6.25/7.00*)

Projects

Kwack | *React, Django, PostgreSQL, DigitalOcean* | https://kwack.io
Created an online study application for medical students to streamline clinical exam preparation. Actively being rolled out to medical students across Australia.

Freight Analytics Dashboard | *Python, Streamlit* | https://tinyurl.com/Govhack23
Created an interactive analytics dashboard to simulate the effects of adopting hydrogen-based freight technologies. Competed in National GovHack Hackathon 2023, placing 1st in our category over 500+ teams.

My Portfolio Website| *React, GitHub Pages* | https://reubenjamesbishop.github.io/reubens-website/
Built a personal portfolio website with React and deployed on GitHub Pages to showcase projects and blog posts.

Skills & Certifications

Languages: Python, SQL (Postgres, MySQL, DuckDB), Go, JavaScript/TypeScript, HTML, CSS
Certifications: AWS Cloud Practitioner (CLF-01), Certified Scrum Master (CSM)