Cooper Ellidge

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EXPERIENCE

iO Energy

Software Engineer — *Sep 2023 – Now*

- Sales platform using React, Javascript, AWS (S3, Lambda, DynamoDB, Cognito, Step Functions), Flask
- Forecasting using Python, Pandas, FB Prophet
- Plans service
- Data pipeline using Snowflake, Dagster, DBT
- Internal Python package for domain-specific utilities
- Gleen using Django, React, Typescript, Docker, AWS (RDBMS, ECS)

Predict Australia

Software Engineer, contracting — *May 2024 – Now*

- Predictive maintenance dashboards for mining site equipment using React

Saab Australia

Software Engineer — *Jan 2023 – Aug 2023*

- 9LV on Track Finder, customer demo
- 9LV with Java, Vue, Typescript using MVVM architectural patterns.

Early Careers Lead — *Sep 2022 – Aug 2023*

- Managed graduate program

Graduate Engineer — *Jan 2021 – Dec 2022*

- 9LV on Track Rules Engine
- UxV motion motion
- Hospital module design for JP2060. Gold & Silver awards nominamtion.
- Mechanical design for Swedish submarine

Undergraduate Engineer — *Nov 2019 – Feb 2020*

- Created and evaluated deep learning models using Python to improve environmental measurements using sensor data. Sea trials.

Centre for the Subatomic Structure of Matter, University of Adelaide

Physics Summer Research Student — *Jan 2019 – Feb 2019*

- Modelled signals for different theoretical dark matter particles through batch jobs submitted to a cloud supercomputer.

EDUCATION

University of Adelaide

Bachelor of Engineering (Mechanical)(Honours) with — *Feb 2016 – Nov 2020*

Bachelor of Science (Mathematics and Theoretical Physics) — *GPA 6.7/7.0*

SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML/CSS, SQL,

Tools: React, Vue, FastAPI, Streamlit, AWS, Terraform, Docker, Jenkins, pandas, NumPy, SciPy, Matplotlib, Plotly, keras, scikit-learn, FB Prophet, Snowflake, Dagster, DBT, Git, GitHub, Jira, BitBucket, Confluence, FeCru, Notion, Figma

Engineering Software: Creo Parametric, AutoDesk Inventor, SolidWorks, DOORS, Windchill, IFS, MATLAB, Simulink, ANSYS suite, COMSOL Multiphysics