Reuben James Bishop

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Personal Summary

Aspiring technical leader interested in continuous learning, problem solving and communication. I have specific interests in data science, full stack web development, cloud computing and technical management. I am a fast learner, and have demonstrated my ability to rapidly pick up new skills and technologies in several previous roles across a range of industries.

Education

The University of Adelaide (2016-2020) - GPA: 6.250/7.000
Bachelor (Honours) of Mechanical Engineering, *awarded with First Class Honours*
Bachelor of Mathematical and Computer Sciences (Computer Science Major)

Work Experience

Lockheed Martin - Asc. Software Engineer (February 2021 - Present)

- Component lead for Tactical and Payload Control software system in Future Submarine Program
- Introduced Agile methodologies to Tactical, Weapons and Deployables group, significantly improving productivity and team accountability
- Developed and maintained subsystem requirements and performance specifications for payload and tactical control systems
- Presented at design review conference to Lockheed Martin and Australian Commonwealth Senior Executive Engineering Teams

IO Energy - Contract Software Engineer (June 2021 - Present)

- Designed and developed cloud-native service for retrieving and processing new customer power meter data with AWS and Selenium, saving approximately 15 minutes per customer acquisition
- Developed and implemented serverless architecture for automated bill comparison based on AWS Lambda functions and s3 storage
- Developed and tested internal REST APIs to manage customer onboarding process with AWS API gateway, Postman and Python
- Collaborated with AIML on machine learning project for accurate prediction of new customer energy load profiles

Lockheed Martin - Co-Op Technical Senior (September 2020 - February 2021)

- Worked with a small team to design and develop internally facing prototype web application for the management of training courses and certifications
- Rapidly upskilled in several technologies including React, Express, NodeJS and SQLite3
- Used GitLab for version control, code review, testing and continuous integration

Resolution Systems - Undergraduate Engineer (June 2019 – February 2021)

- Developed mine site surface mapping algorithm for visualising changing topology in 3D, improving speed of existing method by several minutes per analysis
- Designed and conducted a Fleet Management System case study to compare haul-truck load and dump accuracy between Maxine and competitors. Formally presented results to executive management team and several international clients.
- Maintained and improved multiple features for internal legacy labelling tool

Micro X – Undergraduate Mechanical Engineer (November 2018 - March 2019)

- Solved several significant quality issues on flagship X-Ray device through component redesign.
- Designed multiple jigs and fixtures, increasing manufacturing and test team efficiency.
- Produced detailed technical drawings for both contracted manufacturers and internal use.
- Drafted reports and documentation for QA, Manufacturing, Testing and R&D teams.

Personal Projects

Acture (June 2020 - Present)

- Co-founder of Acture, a software service start-up that's helping digital advertisers automatically create more engaging social content using big data
- Winner of Enabled Solutions eChallenge prize 2020
- Developing structured and unstructured data collection pipeline with Python + Selenium for automated collection of Instagram data set, including data cleaning, processing, feature engineering and warehousing
- Developing data processing modules with a range of dimensionality reduction, deep leaning, natural language processing and computer vision techniques
- Conducted customer research, UI/UX design, business strategy and investor pitching

Other Projects

- Adelaide University Game-Jam, *People's Choice Winner* (JavaScript, ThreeJS, HTML, CSS)
- River's End Retreat Corporate Website (React, Heroku CI/CD)
- Mechanical Engineering Honours Project 2021 in underwater energy harvesting using magnetostrictive materials

Languages, Frameworks and Skills

Languages: Python, MATLAB, JavaScript, HTML, CSS, C++, C

Frameworks: React, AWS [Lambda, API Gateway, CloudWatch, s3], Bootstrap, ThreeJS

Skills: Machine Learning, Predictive Modelling, Data Science, Full-stack web development, UI/UX Design,