JAY BAILEY

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RESEARCH ENGINEER SUMMARY

- Back-end focused developer experienced in designing and building applications and AWS-hosted microservices using Java, Javascript, and Python.
- Formulated, designed, and delivered software projects in fast-paced Agile environments with minimal oversight, working with the entire SDLC from requirements defining through to testing and deployment.
- Currently retraining into AI alignment, with a focus on empirical work as a research engineer.

WORK EXPERIENCE

Independent Researcher - AI Safety Support / SERI MATS *July 2022 - Present*

- Upskilled in core mathematics and machine learning skills throughout 2022, learning reinforcement learning, transformers, and linear algebra.
- Went to SERI MATS during 2023, a program run by the Stanford Existential Risk Initiative to help train AI alignment researchers. Worked under Owain Evans focused on improving alignment of current language models through prompt engineering and analysis.

Senior Software Engineer - Versent *August 2021 - July 2022*

- Led a data integration project to consolidate business-critical information for use in creating ASX reports, using Python, AWS, and IaC via CloudFormation.
- Optimised architecture of said project to maximise code reusability, reducing development time by 75%, allowing a two-engineer project to be built by just one.

Senior DevOps Engineer - Service NSW *June 2020 - July 2021*

- Created a FinOps practice from scratch for a 1,000+ person organisation. Generated objectives, drafted an annual roadmap, designed and built software projects to accomplish the above, and managed director-level priorities.
- Saved $800,000 AUD per annum in AWS cloud costs across the 20/21 financial year.

Software Development Engineer - Amazon *January 2019 - June 2020*

- Optimised customer experience and user flow throughout our application, scaling from $1M to $21M monthly OPS while improving location opt-in rate from 57% to 73%.

EDUCATION

Bachelor of Computer Science
Charles Sturt University

- GPA: 6.63 (American equivalent of 3.63) (15 High Distinctions, 9 Distinctions)
- Executive Dean's List: 2015-2018 (Four or more courses, all Distinction or above)