

LUCAS BARBOSA

ENGINEERING (HONOURS) AND COMPUTER SCIENCE

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ABOUT ME

A bright future can be built with infinite software, energy and labour. These just become problems constrained by maths and economics and are the class of problems I want to devote my life to. We can engineer this triple product by thinking at the edge. Ideas are my own maybelucas.com/posts.

WORK EXPERIENCE

Senior Consultant, Software Engineer

PwC

Sydney, NSW (May 2022 – present)

- Led a cross-functional team of academics and engineers to develop a novel method for guaranteeing trust in online content, culminating in a forthcoming research publication and a prototype in progress.
- Served as technical lead in launching a wage remediation and technical analysis product; from ideation to a comprehensive engineering plan, overseeing product development, conducting user interviews, and managing the full lifecycle of technical leadership.
- Spearheaded the development of [Smart Audit Platform](#), a real-time collaboration solution leveraging 40+ microservices and AI models. Guided the full product lifecycle across 13 countries in APAC and the US.
- Streamlined developer experience by 5x across two engineering teams by introducing modern multi-language monorepo tooling.
- Recognized for high achievement becoming a senior consultant before graduating.

Founder, Software Engineer

Lattice

Sydney, NSW (July 2022 – present)

- Established Lattice, a bespoke software development firm specialising in advanced productivity solutions for private clients.
- Led the development of advanced web applications and backend systems laying the foundation for iterative development and scalability.
- Applied cutting-edge domain and technical knowledge into product development, ensuring relevance and competitiveness in the fast-paced tech industry.

Lead Engineer

Progue Chartered Accountants Pty Ltd

Sydney, NSW (July 2021 – April 2022)

- Spearheaded automation initiatives to optimise tax accountancy workflows, leveraging innovative solutions to streamline processes and enhance efficiency, reducing non-billable hours.
- Developed a cutting-edge web platform to revolutionise productivity applications, custom-tailored to meet business needs. Implemented advanced deployment strategies leveraging full-managed Kubernetes cloud deployment, ensuring rapid iteration and scalability.

Software Engineer

Cercle

Sydney, NSW (Nov 2021 – March 2022)

- Built a mission-critical web application on AWS infrastructure to ensure the reliability of a high-demand product launch.
- As a product owner, conducted in-person and online user testing and QA to enhance user engagement.
- Worked on conceptualising new ideas for future iterations of the product in a highly collaborative startup environment.

EDUCATION

University of New South Wales

Sydney, NSW (2019 – Present)

- B Eng (Honours) and Computer Science
- Honours student under Prof. Will Midgley developing advanced robotic learning algorithms
- Researcher in advanced shielding materials for nuclear fusion reactors
- HD WAM average for core computing subjects
- Achieved a mark of 99/100 in Data Structures and Algorithms
- Winner of UNIHACK 2024