

# LUCAS BARBOSA

ENGINEERING (HONOURS) AND COMPUTER SCIENCE

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## ABOUT ME

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A bright future can be built with infinite software, energy and labour. These resources are constrained by maths, physics and economics yet can become abundant by engineering at the edge. This is my life's mission. Ideas are my own [maybelucas.com/posts](https://maybelucas.com/posts).

## WORK EXPERIENCE

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### Tech Lead

PwC

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.

### Software Engineer

Progue

2021 – 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 Intern

Cercle

2021 – 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.

### Software Engineer

Lattice

2016 – 2022

- 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.

## EDUCATION

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### 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