



PROFILE

I am a passionate technology leader. What drives me is leveraging emerging technologies to create innovative products that drive growth.

My strengths lie in combining deep technical knowledge with strong business acumen, allowing me to lead diverse cross-functional teams to deliver complex business outcomes.

I enjoy public speaking, driving forward technology strategy, and getting my hands dirty building AI solutions.

My website contains a wide variety of video demonstrations, blog posts and other information about me- visit www.LucaStamatescu.com to learn more.



EXPERIENCE

Senior AI Specialist (Global Black Belt) - Microsoft

Oct 2023 - present

As one of Microsoft's foremost experts in AI, I provide deep technical expertise to accelerate customers to production, and help guide organizations through the transformations needed to realise the benefits of AI in their businesses.

- Launching production Generative AI applications at scales few organizations have achieved to date, with throughputs of millions of tokens per minute.
- Guiding customers to develop and adopt MLOps and LLMOps practices, allowing the performance of applications to be monitored over time, helping them scale with confidence. For one customer, this approach helped identify that 60% of their failures were caused by the AI agent's tool selection process. Fixing this led to significantly higher customer satisfaction results.
- Ensuring Responsible AI through the implementation of a multi-layered strategy, to ensure the safety of deployed GenAI applications, preventing jailbreaking attacks and hallucinations.
- Identifying and implementing optimizations to improve application performance and reduce costs. For example, by refining the LLM prompting strategy, I managed to reduce a customer's application latency by 21x, from 315 seconds to 15 seconds.
- Successfully closing multi-million dollar deals through my combination of technical proficiency and strong stakeholder management skills.

Senior Product Owner of AI & Data Fraud Solutions - Telstra

January 2022 - Oct 2023

Australians lost over \$3B to scams in 2022. Telstra has powerful, first party data that is uniquely positioned to combat this. I launched the Scam Indicator API product, which is protecting Australians from fraud, crime and misconduct.

- Created new, high margin revenue streams through cross-industry data sharing, by combining telco and bank data to demonstrate how scams can be prevented. A technology trial showed that 72% of scams were detected by the solution.
- Secured millions of dollars in funding from strategic customers to jointly develop Minimum Viable Products, to validate the product concepts before proceeding to production.
- Project management of a cross-functional team, to deliver technical, legal, governance and commercial outcomes and remove blockers to production.
- Engaged with cyber security and engineering teams to ensure solutions met strict SLAs relating to data security, privacy and application performance.



EXPERIENCE CONT.

Data Science Manager (AI Emerging Technologies) - Telstra Labs June 2021 - January 2022

Whilst others are exploring what we can do today with AI, I look to the future to understand what the next “game-changing” AI technologies will be. By leading a team of data scientists, I de-risked these emerging technologies through proof of concepts, guiding Telstra’s AI strategy and technology decisions. I accelerated the adoption of new techniques into product roadmaps to drive competitive differentiation, growth and cost savings.

- Defined standards for ethical AI development to support Telstra's Data & AI Governance processes. These standards have successfully detected biased models, preventing them from being used in production.
- Incubated computer vision technologies, leading to the creation of the Telstra Smart Video product, driving growth in the Telstra's IoT portfolio.

Senior AI Technology Specialist - Telstra Labs

2017 - 2021

As an AI subject matter expert, I de-risked emerging technologies through proof of concepts, guiding Telstra’s AI strategy and technology decisions.



TECHNICAL SKILLS

AI disciplines: Generative AI, LLMops & MLOps, Computer Vision, Time Series Classification, Predictive modelling, Natural Language Processing, Reinforcement learning

Algorithms: LLMs (OpenAI & OSS), deep learning computer vision models (Faster-RCNN, Mask-RCNN, SSDs, YOLO), supervised regression and classification techniques (random forest, SVM), unsupervised learning (K-nearest neighbours), time series analysis (ARIMA)

Languages: Python, R, Java, Scala, HTML, CSS

Libraries: Langchain, PromptFlow, SemanticKernel, Keras, Tensorflow, Pytorch

Big Data: Apache Spark, Hadoop, HBase

Packages: numpy, scipy, scikit learn, OpenCV, NLTK, pandas

Visualisation: Power BI, seaborn, plotly, flask, matplotlib

Cloud & CICD: Azure, JIRA, Confluence, Bitbucket



EDUCATION

Master of Data Science

Monash University

Awarded with High Distinction

Bachelor of Process Engineering

Monash University

First Class Honours



SOFT SKILLS

- Leading teams
- Agile methodology
- Confident public speaker
- Consulting



VOLUNTEERING

- Stable One Winter Shelter for people experiencing homelessness
- Mentoring programs



REFERENCES

Available upon request.