

Lachlan Jones

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About Me

I am an eager, hard-working and results-orientated recent graduate with a Master's degree in artificial intelligence. My background is in mathematics and computer science, and I am passionate about combining this knowledge with machine learning approaches to solve complex problems. I am keen to apply my strong teamwork, communication and problem-solving skills in a challenging and rewarding role.

Education

University of Canterbury – Master of Artificial Intelligence	Feb 2024 – July 2025
<ul style="list-style-type: none">Focus on deep learning and classical statistical machine learningMathematics electives in advanced abstract algebra (Galois theory) and projective geometryThesis on classifying lifetime smoking exposure with DNA methylation (available on my GitHub) trained machine learningGPA: 8.25/9.0	
University of Canterbury – Bachelor of Science in Mathematics and Computer Science	Feb 2020 – Nov 2022
<ul style="list-style-type: none">Mathematics with a focus on pure mathematics, including analysis, abstract algebra and cryptographyComputer Science with focus on algorithms, networking and computabilityGPA: 7.52/9.0	

Experience

Junior Software Developer – Digital Transformations Ltd.	Nov 2022 – Feb 2024 (Full-time)
<ul style="list-style-type: none">Contracted full-stack web developer part of a small team14 months professional experience working with clients	
Mathematics Tutor – Mathematics and Statistics Department, University of Canterbury	Feb 2024 – Present Feb 2022 – Nov 2022 (Part-time)
<ul style="list-style-type: none">Distance and local tutor for AIMS - Advancing in Mathematical Sciences paperInvolved in the mid-year workshop each year, with 100+ students from around NZ	
Residential Assistant – Arcady Hall (formerly Bishop Julius Hall of Residence)	Jan 2021 – Nov 2021 (Part-time)
<ul style="list-style-type: none">Lived on site in support of first year university studentsIncluded helping run events, organising tutoring and providing pastoral care	

Professional Skills

Independence

- Professional experience completing assigned work independently, including researching and evaluating solutions to problems in a project
- Self-directed and designed a large machine learning project as part of my Master's thesis

Teamwork

- Professional experience working collaboratively to build large-scale projects
- Experience running events and camps as a tutor and an RA
- Proactive in seeking support when required, both professionally and academically

Punctuality

- As a software developer, I produced deliverables for clients against deadlines on large-scale projects
- As tutor, I have marked large volumes of assignment, test and exam questions to meet results deadlines

Communication

- Ability to explain concepts and communicate ideas from tutoring
- Experience communicating with clients on their requirements and the solutions available

Problem-Solving

- Background in pure mathematics with skills in constructing proofs
- Extensive experience in programming, with applications to computer science and data science

Technical Skills ---

Programming Languages: Python, JavaScript/TypeScript, HTML & CSS, LaTeX

Frameworks: React, Next.js, DrizzleORM, TypeORM, TailwindCSS

Libraries: Numpy, TensorFlow, Keras, scikit-learn

Technologies: Docker, PostgreSQL, Git, Microsoft Azure, Apache Spark

Mathematics Background: Calculus, linear algebra, abstract algebra (group, ring, field and Galois theory), cryptography, graph theory, number theory

References ---

Available on request.