

# Lachlan Jones

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## About Me

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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

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**University of Canterbury** – Master of Artificial Intelligence Feb 2024 – July 2025

- Focus on deep learning and classical statistical machine learning
- Mathematics electives in advanced abstract algebra (Galois theory) and projective geometry
- Thesis on classifying lifetime smoking exposure with DNA methylation (available on my GitHub) trained machine learning
- GPA: 8.25/9.0

**University of Canterbury** – Bachelor of Science in Mathematics and Computer Science Feb 2020 – Nov 2022

- Mathematics with a focus on pure mathematics, including analysis, abstract algebra and cryptography
- Computer Science with focus on algorithms, networking and computability
- GPA: 7.52/9.0

## Experience

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**Junior Software Developer** – Digital Transformations Ltd. Nov 2022 – Feb 2024

- Contracted full-stack web developer part of a small team *(Full-time)*
- 14 months professional experience working with clients

**Mathematics Tutor** – Mathematics and Statistics Department, University of Canterbury Feb 2024 – Present

- Distance and local tutor for AIMS - Advancing in Mathematical Sciences paper Feb 2022 – Nov 2022
- Involved in the mid-year workshop each year, with 100+ students from around NZ *(Part-time)*

**Residential Assistant** – Arcady Hall (formerly Bishop Julius Hall of Residence) Jan 2021 – Nov 2021

- Lived on site in support of first year university students *(Part-time)*
- Included helping run events, organising tutoring and providing pastoral care

## Professional Skills

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### 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**

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**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

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

## **References**

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Available on request.