Harry Bird

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Education

- **Master of Data Science**
  University of New South Wales, 2025

- **Bachelor of Engineering with Honours, Mechanical**
  University of Canterbury, 2023

Experience

- **Full Stack Web Developer**
  Rocersa, November 2023 - Present
  - Rocersa is a global landscaping products supplier based on the Kapiti Coast of New Zealand
  - My role was to develop and implement a new digital strategy
  - I migrated to a cloud database using SQL and Node.js in order to improve management of customer and stock data
  - I developed a new website using Nuxt and Supabase to allow live pricing updates
  - I created performance dashboards using JavaScript and SQL to monitor sales and stock levels
  - I gained valuable experience in the E-Commerce space

- **Building Services Intern**
  Aurecon, November 2022 - February 2023
  - Developed understanding of Mechanical Building Services and collaborated with team members to develop energy-efficient solutions for buildings
  - Conducted Thermal Modelling using software to determine building heating and cooling loads
  - Gained valuable experience in a professional consulting environment

Projects

- **Central America Rail Network Feasibility Study**
  In a group of two, comprehensively researched the challenges and opportunities in developing passenger and freight rail connections in Central America. Analysed financial and risk management data, and combined it with population demographics to create a comprehensive study.

- **UCHPV Human Powered Land Speed Record Attempt Team**
  Lead the aerodynamics team within the record attempt project. Designed and optimized a fairing to minimize drag coefficient. Conducted wind tunnel testing to validate simulation results. Constructed the fairing using composite manufacturing methods.

Skills

- Languages
  - English (Native)
  - Spanish (B2)

- Technical
  - Python
  - SQL
  - JavaScript
  - Machine Learning
  - Microsoft Office Suite

- Interests
  - Hockey
  - Golf
  - Polo