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Harry Breden

EDUCATION

Bachelor of Science (advanced major in Mathematics and Data Science) (Honours), The University of Sydney
- Weighted average mark (WAM): 92.2
- High Distinction in all units taken.
- Notable marks:
  - Foundations of Data Science (Advanced) — 100
  - Geometry and Topology — 99
  - Data Analytics: Learning from Data (Advanced) — 98
  - Science Dalyell Individual Research Project (Pure Maths) — 98
  - Linear and Abstract Algebra (Advanced) — 97
  - Analysis (Advanced) — 93
  - Data Structures and Algorithms (Advanced) — 93
  - Discrete Mathematics (Advanced) — 93
  - Introduction to Programming — 93
  - Writing with LaTeX — 93
  - Calculus of One Variable (Special Studies Program) — 91
  - Informatics: Data and Computation (Advanced) — 90
  - Economic Strategy and Negotiation — 90
- Expected completion: 2025
- Scholarships:
  - Farrand Science Scholarship
  - Plumian Scholarship
- Prizes:
  - Dean's List of Excellence in Academic Performance
  - University of Sydney Academic Merit Prize
  - Citadel Prize for First Year in Mathematics and Statistics
  - USA Foundation Prize in Statistics
  - Citadel Prize for Second Year in Mathematics and Statistics
- Societies:
  - 180 Degrees Consulting Society
  - SUMS (Sydney University Mathematics Society)
  - SciSoc
  - SUDATA
- Committees:
  - Physics Equity and Access Committee

Higher School Certificate, Barker College
Graduated 2021
- ATAR: 99.85
  - Mathematics Extension 1 — 99
  - Mathematics Extension 2 — 96
  - Physics — 96
  - English Advanced — 95
  - Science Extension — 47
  - Geography — 94
- School Vice-Captain

WORK EXPERIENCE

Visagio Australia 2022 - Present

Technical and Management Consultant Internship
- Promoted to Intern II position after receiving a Top Performer grade in first evaluation cycle (July 2023).
- Data Analytics Projects
  - Lead script and workflow developer for an ongoing project (1.5+ years) within the Business Research and Analytics team of a major national rail transport provider. Developed integrated Python and SQL workflows to identify and quantify opportunities for safety improvements. Project

deliverables included dynamic Tableau and PowerBI reports for internal customers. Coordinated on-track operational trial to optimise driver behaviour based on data-driven insights analysing fuel usage.
- o Worked within a Tier 1 mining company to create interactive animations in AnyLogic that visualised a discrete-event simulation forecasting production in four mine-to-port value chains.
- o Developed Natural Language Processing proof-of-concept to automatically categorise free-text-entry safety reports for a mining company. Created model to forecast likelihood of safety events at mine sites.
- · Skills
  - o Python
  - o SQL
  - o DataBricks
  - o Tableau
  - o AnyLogic
  - o PowerBI

Barker College 2022 - 2024

Robotics Mentor.

Atomi 2021 - 2021

Junior Content Creator
- · Generated educational content for Yr 11 Physics for Australian curriculums.

Tutor 2020 - Present

Private Tutor and W&T Academy Tutor.

ACHIEVEMENTS

Barker College 2021
- · School Vice-Captain and Prefect
- · Featured Research Article author in The Australian Institute of Physics Magazine
- · Vindin Leaving Certificate Prize (highest ATAR achieved in cohort of 347)
- · High Distinction in The Australian Maths Competition
- · Credit in the UNSW Maths Competition
- · 3rd place in the ROWE Scientific Investigation Award Physics for STANSW Young Scientist
- · Maths Extension 2 Prize (1st in cohort)
- · Head of Barker College's Endeavour Award
- · Captain of Robotics "4613 Barker Redbacks" Electronics and Pneumatics Team (2018-21)
- · Member of Robotics FRC Hall of Fame Inductee Team (2021)
- · 2nd XI Football Team (2022-21)

OTHER INTERESTS

- · Community Volunteering at OzHarvest
- · Fitness and social sport

REFEREES

Brad Caldwell-Eyels	**Jeser Becker**
Managing Director	Head of Robotics
1st City Real Estate	Barker College
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