Isaac Bergl

Student of **Computer Science and Mathematics** (Honours)

University of Western Australia

Website | isaacbergl.com

Github | github.com/itbergl

I am a high achieving student with a fundamental knowledge of software and mathematics. I have experience in a software engineering role through an internship with an enterprise organisation. I am looking to grow my skill set and work in an experienced team. I am doing my honours year in 2022 with the Defence Science and Technology Group.

💼 Experience

❖ **Software Engineer Intern**, Chevron
November 2021 – February 2022
- Worked in a large enterprise organisation to deliver a software project that derives business value.
- Used an agile framework, communication and collaboration to deliver results.
- Worked with powerful back-end technologies such as .NET core and Azure cloud services.
- Built business acumen by working in a large enterprise organisation.

❖ **Trading Team Member**, QFIN
April 2021 – Present
- Actively involved in QFIN – UWA's Quantitative Finance club
- Work in a team to research, build and report on stock trading algorithms for the club to publish to its members.
- Organise and run workshops to train technical skills for algorithmic trading.

❖ **3D Particle Simulator Project**, UWA
June 2021 – November 2021
- Worked in a team of software engineering students to deliver a 3D particle simulator sandbox in VR for a leading UWA researcher.
- Worked using an agile framework to regularly engage with stakeholders and adapt to changing requirements.

❖ **Research Placement**, UWA
December 2020 – February 2021
- Researched the robustness of machine learning models such as random forest ensembles and decision trees.
- Supervised by Dr Zeyi Wen – an award-winning researcher at UWA.
- Produced a literature review that analysed frontier research.

❖ **Checkout Operator,** IGA
April 2019 – November 2021
- Was a reliable employee in a casual position where I learnt key skills such as operating under pressure, communication and conflict resolution.

🎓 Education

❖ **Bachelor of Philosophy** (BPhil), UWA
February 2019 – Present
- Majoring in **Computer Science** and **Mathematics** (Honours) through BPhil – a highly selective degree offered to high achieving ATAR students.
- Doing honours in 2022 with the Defence Science and Technology Group in **convolutional neural networks.**
- Averaging a **high distinction** across all units.
- Previously studies physics, achieving high marks.

WAM | **83.192**   GPA | **6.692**

❖ **Certificate of Education**, Churchlands Senior High School
February 2014 – November 2018
- Achieved a high ATAR of **98.5**.
- Recipient of Engineers Australia's Certificate of Excellence award for high achieving STEM students.
- Studied Physics, Chemistry, Specialist Maths, Methods Maths and English as well as woodworking and computer aided design as electives.

</> Programming Skills

Python	Javascript
HTML	CSS
React	Node.js
Java	C
C#	.NET core
MySQL	Unity
Azure	Git
Linux	

⊞ Mathematics Skills

Networks	Linear Algebra
Multivariable Calculus	Statistics
Discrete Structures	Complexity Theory
Chaotic Systems	Number Theory