JEVI WAUGH

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Professional Summary

I am currently completing a Bachelor of Computer Science, supported by a strong foundation in programming and practical experience across multiple languages and project-based coursework. I'm passionate about applying my skills to real-world challenges and eager to contribute to innovative software and technology projects alongside like-minded, motivated individuals in a collaborative environment.

Education and Qualifications

The University of Queensland   *S.T Lucia, Brisbane*
Bachelor of Computer Science in Machine Learning   *Expected graduation, December 2025*

Curtin University | *Transferred 20 units to UQ*   *Bentley, Perth*
Bachelor of Computing in Computer Science   *Feb 2023 – Oct 2023*

Curtin College | *Graduated in 2022*   *Bentley, Perth*
Diploma in Information Technology | 6.0 GPA   *Feb 2022 – Oct 2022*

Comet Bay College | *Graduated in 2021*   *Secret Harbour, Perth*

Technical Skills

Languages (Proficient): C (C89/C99), Python, Java, SQL
Languages (Familiar): R (RStudio), Julia, Bash, HTML/CSS
Platforms: Windows 10/11, Linux/Unix (Ubuntu), WSL 2
Frameworks & Libraries: NumPy, Matplotlib, OpenCV (cv2), scikit-learn, PyTorch, fast.ai
IT coursework: Web server, FTP, DNS, LDAP, Samba, Active directory, Git, Office 365

Qualities

Takes initiative to learn **|** Punctuality **|** Team player **|** Kind and empathetic **|** High work performance

Projects

GMM-Engine: Gaussian Mixture Model Implementation | Python   *March 2025 – Current*
Implementing Gaussian Mixture Models from scratch, intent to provide mathematical and theoretical explanations, and will compare against scikit-learn's GMM for both supervised, semi-supervised and unsupervised learning tasks.

Leveraging Persistent Homology for Topological Feature Extraction in Machine   *February 2025 - Current*
Learning: The PH-AML Pipeline | Julia, Python, Jupyter Notebook
Developing a pipeline integrating topological data analysis into supervised learning models by extracting persistent homology features (barcodes, landscapes) from high-dimensional data using Vietoris–Rips filtrations, enhancing classification between k-complexes.

Droid Racing Challenge | C, Python   *April 2024*
Developed a computer vision system for an autonomous droid, enabling it to navigate tracks using camera input and ultrasonic sensor data for obstacle detection and path planning.

MNIST Image Classification | Python   *Spring 2023*
Trained neural networks (VGG16, ResNet, CNN) on the MNIST dataset and evaluated performance against linear classifiers (SVM, K-NN, Bag of Words), achieving over 95% accuracy.

Extra-Curricular Activities

Queensland AI Safety Initiative (QuASI) - Technical Fellowship   *Autumn 2025*
Engaging in an 8-week technical fellowship on AI safety, covering topics such as Mechanistic Interpretability, Reinforcement Learning, Goal Misgeneralisation, and Alignment challenges.

Queensland AI Safety Initiative (QuASI) - AI Policy Fellowship   *Autumn 2025*
Participating in an 8-week program exploring AI policy and governance, focusing on risks from advanced AI, regulatory strategies, and safety standards

Interests and Activities

Enjoy camping with friends **|** Enjoy swimming and bodysurfing **|** Volunteer for the Defence Families community **|** Often take my dog, Jackson, on long walks

Experience

Casual Sales Associate | R.M.WILLIAMS, Chermside, 4032   April 2024 – Oct 2024

- **Customer Service and Boot Repairs:** Provided exceptional customer service, conducted boot assessments and repairs.
- **Logistics and Deliveries**: Signed off deliveries, managed shipping processes, and ensured accuracy in dispatching items.
- **Visual Merchandising:** Implemented merchandising strategies using Flagship.AI to enhance store layout and align with brand standards.
- **Leadership and Accountability:** Stepped up to take leadership responsibilities in the absence of manager, mentoring colleagues, coordinating operations, and resolving challenges.

BOH Team member | Dome, Secret Harbour, WA, 6173   Jan 2022 – Jul 2023

- **Teamwork:** Collaborated effectively with kitchen staff to ensure smooth operations, maintain efficiency, and meet service demands.
- **Adaptability:** Gained valuable experience in a fast-paced environment by quickly learning new processes, procedures, and systems.
- **Problem solving:** Demonstrated excellent organizational and problem-solving skills while managing multiple tasks simultaneously.

Certificates

1	*Artificial Intelligence Alignment Reading Course*	*2024*
2	*Defence Work Experience Certificate*	*2021*
3	*Defence Technologies Extension Award*	*2021*
4	*Cert II In Music Industry*	*2021*
5	*Resilience Award at Comet Bay College*	*2021*
6	*Soldier On's Endeavour Award*	*2020*
7	*Gold Award in Cert II in Engineering*	*2020*
8	*Mechatronics Bionic Arms at QUT*	*2019*
9	*Code a Solar System at QUT*	*2019*
10	*Internet and Computing core Certificate*	*2017*

Languages

English **|** French **|** Créole

References

Franchesca Torrisi **|** *Manager R.M.WILLIAMS*
P. 0457 482 414

Pierra Sadgrove **|** *Supervisor, R.M.WILLIAMS*
P. 0431 428 771

Robert Lowndes **|** *Manager, Dome*
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