

GINA HORCH

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PROJECTS

SHE CODES AUSTRALIA PERTH PLUS COHORT 2024-2025

Part-time tech program offering women an alternative pathway into the industry with hands-on-projects in web-development, data manipulation, and frameworks like Django and React JS.

Crowdfunding project CultureConnect: Empowering Aboriginal kids

- Developed a crowdfunding platform to support grassroots cultural programs for Aboriginal children in care, connecting them with their culture, country, and community through activities like dance, art, and traditional practices.
- Created and developed back-end API system using Python and Django Rest Framework (DRF).
- Leveraged Django to manage user authentication, project listings, and data manipulation.
- Designed and implemented an entity-relationship diagram (ERD) to structure database relationships for project management and user interactions.
- Developed scalable backend architecture using object-oriented programming (OOP) principles for maintainability and flexibility.
- Tech Stack: Python, Django, SQL, SQLite3, ReactJS, Git, Insomnia

Portfolio project Gina's portfolio

- Developed a personalised portfolio website to showcase my work, implementing responsive design principles, accessible techniques and project management skills using Git.
- Designed and implemented a multi-page portfolio website using semantic HTML and CSS for accessibility and responsive design across devices.
- Deployed the website on GitHub Pages, leveraging version control with Git for iterative development and backup.
- Utilised wireframing to structure the design and user experience, including a mobile-friendly navigation system.
- Tech Stack: HTML5, CSS3, Markdown, Git

THE ODIN PROJECT FOUNDATIONS 2024

Open-source community coding curriculum to introduce aspiring web developers to essential tools and technologies, covering both front-end and back-end concepts.

Calculator project

- Developed a fully functional, on-screen calculator that performs basic arithmetic operations.
- Developed arithmetic operation functions (add, subtract, multiply, divide) in JavaScript.
- Implemented logic to display user input and calculations dynamically.
- Added error handling, including preventing division by zero and integrated Git for version control.
- The Stack: JavaScript, HTML5, CSS3, Git

Rock Paper Scissors project

- Developed an iterative browser-based game where players can click buttons to make their selections and compete against the computer, with the game keeping track of scores and announcing a winner.
- Built a responsive user interface (UI) with HTML, CSS, and DOM manipulation.
- Utilised Git for version control, applied Git branching and merging techniques to manage code changes.
- Tech Stack: HTML5, CSS3, JavaScript, Git

PROFESSIONAL EXPERIENCE

BUSINESS OWNER

July 2024 - present

Social Insight Solutions

- A dynamic research consultancy that delivers literature reviews, jurisdictional scans, and data-driven insights through both qualitative and quantitative analysis, including survey design and implementation.
- With a focus on reliability and thoroughness, the business is expanding its services to include cutting-edge full-stack technology solutions, blending research and investigative skills with technological innovation to meet evolving needs of clients.
- Technologies used: Rayyan, Zotero, LucidChart, Canva, Python, PSPP (open-source SPSS Statistics), HTML5, CSS3, JavaScript, Markdown, Git, Django, Django Rest, Insomnia, Nodejs, GitHub, Visual Studio Code

RESEARCH ASSISTANT

May 2022 - present

Australian Centre for Child Protection - University of South Australia

- Collaboration on child protection projects across Australia, utilising **SPSS**, **Qualtrics** and **Excel** for quantitative data analysis.
- Conducted qualitative data analysis using **NVIVO 14** and **LucidChart** for thematic mapping and diagramming.
- Designed and managed surveys in **Qualtrics** for framework development and analysis.
- Performed systematic data searches using **string queries**, exporting data to **Endnote** for reference management.
- Employed **Covidence** for title/abstract screening, followed by full-text screening, data extraction and synthesis.

POLICE OFFICER

January 2008 - May 2022

Western Australia Police Force (Metro and Regional WA)

- As Investigations Manager/**Detective Sergeant** at Scarborough Police Station I was responsible for overseeing and improving the quality and efficiency of up to 300 local investigations per week by leveraging data insights from **PowerBI**, identifying crime trends across districts, providing expert guidance, task prioritisation, resource allocation, investigation triage, data and evidence assessment and ensuring compliance with investigative standards.
- I led the Joint Anti Child Exploitation Team (JACET) in WA, with eight staff directly reporting to me, collaborating with the Australian Federal Police, the Australian Centre to Counter Child Exploitation (ACCCE) and international law enforcement partners to investigate borderless child exploitation matters. I became certified as a **Digital Evidence Investigator** and **Griffeye Analyze Pro Operator**, utilising advanced digital forensic tools to triage electronic devices during search warrants, emphasising efficient evidence collection to protect children from harm.
- In 2017, I was awarded the **Individual 9News WA Police Excellence Award Police Officer of the Year**.
- As qualified **UFED** operator (since 2018) I mentored frontline police officers on the procedures for search warrants, seizing electronic devices, and using **Cellebrite's UFED InField** to extract and analyse forensic data from mobile devices, ensuring the collection of evidence in line with legal and investigative standards. As Detective Investigator I utilised the Linux based **Simple Image Preview Live Environment (SimPLE)** (since 2013) and the forensic tool **ACESO** to triage electronic devices, extract forensic data and preserve evidence for criminal trials.

EDUCATION

2020 - 2021

EDITH COWAN UNIVERSITY

Bachelor of Arts (Psychology) First Class Honours

2013 - 2019

EDITH COWAN UNIVERSITY

Bachelor of Arts (Psychology)

As part of my degree, I elected two technology specific units:

- Applied Communications (CSG1105) to gain understanding of telecommunications and networking infrastructures, network models, and emerging data communication technologies.
- Computer Security (CSI1101) to study threats to computer systems, encryption techniques, and network security measures, including malware, firewalls, and cryptographic methods.

ACKNOWLEDGEMENT

As a non-Aboriginal woman, I respectfully acknowledge the Traditional Custodians of the lands where I live and work, the Whadjuk and Mooro people of the Noongar nation. I honour their continuing connection to culture, country, waters and skies, and pay my respects to Elders past and present and emerging leaders. Sovereignty was never ceded.