Jesse Hoppo

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EDUCATION

University of Adelaide, SA   **Jan 2023 – Nov 2026**
- **Major**: Bachelor of Software Engineering -- Smart Technologies
- **Notable Coursework**: Algorithms & Data Structures, Networks, AI/ML, Advanced Cybersecurity, IoT, Computer Arch, Electronics

EXPERIENCE

Labatory Technician, Junior | Australian Geotechnical Testing (AGT)   **Apr 2025 - Present**
- **Reported findings** of soil compacting tests to construction teams, **consolidating data** into precise requirements to be undertaken
- Followed precise **laboratory procedures** with precision boasting a **95%+ acceptance rate**,
- Used visual analysis and tactile skills to determine peak water content with a **90% accuracy** increasing work speed by over **70%** within a single week

Bottling Operator | Acclaimed Workforce (SANECTOR/YALUMBA)   **Jan 2023 - Present**
- Conducted unloading of domestic and international wine shipments up to **$1M+ with no loss of product**
- **Implemented** new **quality control procedures** during palletisation of wine, reducing average error occurrences by **10%**
- **Trained new hires** on production duties and company procedures including machine operation, depot, palletisation operation, company-based health and safety standards, and more; trained new hires showed increased work efficiency and caused less errors on average

SOFTWARE PROJECTS

Medical GUI Dashboard | C++, QT, MVC, MAKE, GIT, JIRA
- Designed and programmed a **C++ application** in a small group using QT framework based on **system and user requirement analysis**
- Presided over **documentation and design procedures** from concept to production including vigorous documents, README, code commenting, video tutorials and more
- **Directed agile development** using **GIT** and **JIRA** to manage sprints and improve peer collaboration
- Leveraged the MVC architecture to meet system needs and increase production speed, meeting over **95%** of deliverables early

OceanEvents | HTML/CSS, Vue, AJAX, Node, Docker, SQL
- In a group of 3 created **a full stack web application** that supports local marine organizations to create events, and users to RSVP or follow organizations
- Integrated a robust **REST API** layer to meet **system functionality requirements** including **user authentication**, newsletter subscriptions, automatic social media posts, and org-based notifications
- **Optimised responsiveness** by leveraging **AJAX** and **Vue** to reduce load times by **20%+,** increasing user engagement and reducing cognitive load by **40%**

DracoX | Python, API, Discord, Logging
- Developed and hosted a Discord bot utilizing **TCP peer-client connections** supporting average response times **below 200ms** for **20+ daily users**
- Designed an **automated command factory**. This allows new commands to be effortlessly integrated into the production system without code refactoring
- Implemented **error-guarded client-server logging** through pythons **STDLIB logger**. This included configuration of the logger, default arguments and returns, critical levels and more

RediX | C/C++, Networking, Hashing, Database, Cache
- Developed an IPv4 **TCP server-facing network** with client connectivity. Utilising **binding** and **read-write buffers** to implement two-way communication
- Established a **in-memory database** and **local cache** which utilise **OSI Protocols** to implement data structure storage and user access including hash-tables, data serialisaion, and sets
- Utilised C's low-level abilities to ensure high connection and response speeds, and memory management. Examples include **cache alignment**, **stack-allocation**, and **loop unrolling**

SKILLS

Technical: C/C++, Python, JS/TS, MATLAB, AJAX, SQL, Agile, Linux, CI/CD, VueJS, ReactJS, NextJS, Express, Bootstrap, Ruby on Rails,
Software: GIT/GitHub, Docker, AWS, Kali (Cyber-based), VSCode, Jira, Bootstrap, Jenkins/GH Actions

EXTRA-CURRICULAR

Engineering:
- Competed in HackTheBox's 2025 CyberApolcalypse CTF
- Presented a written report in the 2022 EWB student competition

Personal:
- Swam competitively at a state level for my local club
- Played electric guitar in a band during a local performance

CERTIFICATIONS

- I am currently studying to **pursue cyber certifications** (predicted to obtain by October-December): **CompTIA Security+** and **Network**+, **CISSP**, and **CEH**
- I also plan to work towards various certifications on the **Google** and **AWS** platforms
- Currently hold a responsible person and RSA license