

Andre Aw

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EDUCATION

University of Toronto

Honors Bachelor of Science in Computer Science

Sep 2024 – Jun 2027

Toronto, CA

EXPERIENCE

Information Technology Support Specialist

Five West Realty

May 2021 – Jun 2022

Manila, PH

- Configured Layer 2 network appliances and local Linux servers
- Automated repetitive workflows by scripting with Bash and Powershell
- Ensured standardization of drivers/binaries across office computers
- Troubleshoot computer problems brought by staff

System Administrator

YSL Realty

Aug 2022 – Aug 2023

Manila, PH

- Deployed Linux servers for local centralized file sharing and backup
- Set up secure file sharing via a GUI with SFTP and SSH
- Digitized hardcopy records to local servers
- Troubleshoot computer problems brought by staff

PROJECTS

Clausewitz Manifest | *Rust, PostgreSQL, HTML, CSS, Javascript, Typescript, HTMX, Linux, Cloud, Nix, Git* Mar 2025 – Present

- Created a RESTful API in Rust that allowed users to search for items in a PostgreSQL database produced by Clausewitz Parser
- Used HTMX to allow recursive insertion of HTML/CSS "nodes" to show relationships of parents to children
- Used Javascript and Typescript to handle fetching of child nodes
- Ensured clean architecture by splitting basic functionality into microservices
- Used Git and hosted the website on an AWS server using Nix to ensure reproducibility and ease of deployment

Clausewitz Parser | *Rust, Python, PostgreSQL, Paradox Script, Git*

Feb 2025 – Present

- Developed a program that could create a PostgreSQL of all modifiers and events in Paradox games
- Programmatically parsed Paradox Script, a domain-specific language developed by Paradox Interactive with the help of Python scripts
- Read parse tree output into a database, keeping track of assignment pairs and scoping in the original Paradox Script using recursive parent-child relations
- Increased PostgreSQL insert speed using strategies such as dropping indices using insertion, using unlogged tables, and storing batches of inserts into transactions

Nix Devenv | *Nix, Docker, Linux, Git, Bash/Zsh, Python, Lua*

Nov 2024 – Mar 2025

- Developed isolated Linux/Unix development environments using Nix, a package manager stand-in for Docker containers
- Configured bootloaders, systemd services and interfacing with hardware via a uniform infrastructure-as-code interface
- Standardized project dependencies by setting per-project PATHs to directories containing unique versions of each dependency
- Ensured reproducibility by storing version info in lockfiles tracked by Git
- Handled differences in required binaries per system architecture and OS by setting automatic recompilation of dependencies per system
- Used Bash/Zsh, Python, and Lua to configure common developer tools and automate repetitive development and versioning workflows

TECHNICAL SKILLS

Languages: C/C++, Rust, Python, HTML, CSS, Javascript, Lua, Bash, Zsh, Dash, Powershell, Nix

Developer Tools: Git, Linux, Bash, Zsh, Dash, Powershell, Nix, SSH, Vim