

Kaelan Jantzen

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EDUCATION

University of Victoria – Bachelors in Computer Science (B.S) – **3rd Year** 2019 – Present

COMPETENCIES

Languages: Java ◦ Python ◦ C ◦ JavaScript ◦ HTML ◦ CSS ◦ SQL ◦ React

Tools: REST API ◦ Linux ◦ Git ◦ Tailwind

Concepts: OOP ◦ Data Structures ◦ Algorithms ◦ Computer Architecture ◦ Operating Systems

WORK EXPERIENCE:

Car Lot Attendant – King's Auto Sales Dec. 2021 – Jan. 2023

- Detailed vehicles inside and out to maintain a clean, professional appearance for customer viewing.
- Performed errands and miscellaneous tasks as requested by management to support daily operations.
- Picked up and dropped off vehicles for customers and service appointments.

PROJECTS

Amazon DeepRacer

- Developed and trained reinforcement learning models using AWS DeepRacer to optimize autonomous driving performance through trial-based learning.
- Tuned hyperparameters, reward functions, and policy configurations to optimize lap times in simulated tracks

Train Scheduler

- Created a simulation of a train station scheduler using C++ and POSIX threads.
- Implemented mutex locks and condition variables to ensure thread-safe access to shared resources.
- Demonstrated ability to handle race conditions, avoid deadlocks, and manage real-time concurrent processes.

RuneScape Market Algorithm

- Designed a Python-based market analysis tool to fetch, parse, and monitor live item prices from the RuneScape API.
- Implemented logic to calculate margins, detect arbitrage opportunities, and alert users to profitable trades.
- Minimized API requests by caching static data in a Postgres database.