DAVID KATZ

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TECHNICAL SKILLS

PROGRAMMING LANGUAGES AND FRAMEWORKS: Java, Python, C++, C, HTML, CSS, JavaScript, JQuery, Node.js, React.js, Express.js

DATABASES: MongoDB, SQL Server, Oracle Toad

VERSION CONTROL: Git, Jira

SYSTEMS: Windows, Linux, Bash, Docker, Kubernetes

EDUCATION

Carleton University · Sept. 2019 to Dec. 2022
Bachelor of Computer Science Class of 2022
Minor in Business Administration
CGPA : 10.0/12 (A-)
Dean's List Recipient
A.D. Dunton Scholarship Recipient

EMPLOYMENT

Canadian Food Inspection Agency · **Business Intelligence Developer** · May 2021 to Aug. 2021 · Ottawa
Oracle Toad, MS SQL Server, Python, Cognos, Jira, IBM InfoSphere, Git
-Wrote database queries, and testing scripts to conduct analysis and to confirm data quality/accuracy.
-Developed ETL scripts to improve the data loading time from the Application source databases into the Enterprise Data Warehouse.
-Reviewed and Improved Intern setup/procedural documentation for a more streamlined orientation experience.
-Assessed and fixed client issues and provided results to database administrators.
-Created and supported development of BI Reports for large clients

Carleton University · **Teaching Assistant (Discrete Mathematics I)** · Jan. 2021 to May 2021 · Ottawa
Python, Figma, Bash
-Created review material through small lectures including audience participation. Used visuals and a variety of teaching techniques to explain difficult concepts which improved students understanding and helped them achieve higher grades.
-Led, developed, and marked weekly tutorials to ensure students fully understood the lecture material.
-Communicated with students through weekly office hours where students filled missed information by asking supplementary questions and mentored students on external topics in computer science.
-Evaluated assignments, tests, and exams to provide relevant and constructive feedback to students.

Walmart Canada · **Cashier/Customer Service Representative** · June 2017 to Jan. 2019
-Scanned items, ensured that prices and quantities were correct, and collected payments
-Assisted customers by explaining or recommending items, answering questions, and processing exchanges and refunds
-Helped customers with complaints and questions, and gave customers information about products and services

American Eagle Outfitters · **Brand Ambassador** · May 2019 to Sept. 2019
-Acted as the face and voice of the company
-Built brand recognition, and successfully promoted product through engaging customers
-Increased the company's brand awareness and generated sales

PROJECTS

Binary input decoder: Maze Runner · 2020
C, Visual Studio, Virtual Box, Git, GitHub, Linux
Decodes integer values into binary and prints out serial combinations of multiple binary mazes to show path availability
-Used low memory intensive data structures to create and sort mazes
-Created an efficient algorithm to test which mazes will be able to run a path through themselves

Image editor for ghosting effect: Friendly Ghost · 2020
Python, Pygame, Visual Studio, Git, GitHub, Linux
Image processor that lays a ghost image on a background image
-Used a recursive approach to manipulate RGB values to give the ghost image a translucent effect
-Imported and utilized the Pygame API which sped-up runtime
-Concentrated on image scalability

Single-player game project: Flappy Bird · 2019
Java, IntelliJ, Git, GitHub, Windows
Recreated the classic mobile game Flappy Bird on desktop
-Used Object-Oriented Design, Encapsulation, and Polymorphism to create a maintainable code base, capturing functionality and interaction in multiple classes
-Documented design in UML class diagram, interaction diagrams for easier project maintainability
- Designed a custom Swing GUI based on static images read from disk to add a more enhanced visual experience