

Sebastian Lopez

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EDUCATION

University of Northern British Columbia

Prince George, BC

Bachelor of Science in Computer Science — GPA: 3.97/4.33

Apr. 2023

- Proficient in relational database systems and SQL with hands-on experience in storage structures and data manipulation using SQL-like languages.
- Skilled in advanced database concepts, including transaction management, query optimization, and data warehousing.
- Equipped with expertise in database design and application development, with a solid foundation in entity-relationship modeling, functional dependencies, and normalization theory.

EXPERIENCE

Administrative Assistant

Mar. 2024 – Present

Morguard - Pine Centre Mall

Prince George, BC

- Managed monthly sales figures data for store tenants, ensuring accurate data entry and reporting for financial analysis.
- Automated routine tasks using Power Automate, including weekly email reminders and auto-replies for the generic sales mailbox, saving the mall approximately \$700/year.
- Enhanced weekly online memos with custom HTML, adding dynamic content like responsive layouts, tables, forms, and buttons, which improved visual design and functionality, receiving praise from management and increasing engagement with tenants.

QA Automation Developer

Apr. 2022 – Aug. 2022

Noratek Solutions Inc

Prince George, BC

- Enhanced web testing efficiency by ~77% through optimized automated tests, achieved by refining test scripts and configurations.
- Developed and maintained web applications using JavaScript, CSS, and HTML for asset reporting and checklists, ensuring seamless user experiences and responsiveness.
- Created detailed bug reports, playing a pivotal role in resolving over 50 website issues, thereby enhancing overall site performance and reliability.
- Improved communication and collaboration with the development team by using agile methodologies and participating in daily stand-ups.

PROJECTS

Machine Learning Pac-Man

Dec. 2022 – Apr. 2023

TensorFlow, Python

- Implemented a deep Q-network using TensorFlow to allow Pac-Man to learn and play autonomously, utilizing reinforcement learning techniques.
- Collaborated with a team to enhance the AI algorithms for the ghosts, improving their pathfinding and decision-making capabilities, resulting in a more challenging learning environment for Pac-Man.
- Maintained a version control system for project collaboration and tracking changes, ensuring project consistency.

Data Analysis of Global CO2 Emissions

Mar. 2022 – Apr. 2022

PowerBI, Python

- Led comprehensive data analysis for a research paper on global CO2 emissions, employing advanced analytical techniques to identify patterns and trends in energy consumption and production data across different countries.
- Enhanced research credibility by ensuring high data accuracy and integrity through meticulous data cleansing and transformation processes.
- Effectively communicated complex data insights using graphs and visual representations in PowerBI during presentations to peers and professors.

TECHNICAL SKILLS

Programming Languages: Python, SQL, JavaScript, Java, C/C++, HTML, CSS

Tools and Technologies: PowerBI, TensorFlow, Git, Yardi Voyager, Power Automate, Microsoft Office

Data Analysis and Management: Data Cleaning, Data Transformation, Statistical Analysis, Database Management

Soft Skills: Communication, Problem-solving, Teamwork, Adaptability, Leadership, Attention to Detail