

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 & CSS, 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

Mario Kart 8 Custom Track with GIS Integration

May 2023 – Present

Blender, GIS Data, Python

- Developed a custom Mario Kart 8 track using 3D modeling, incorporating GIS data to enhance the visual environment and provide a realistic setting.
- Integrated SRTM elevation data to accurately represent real-world terrain features in the track's backdrop.
- Highlighted the project as a unique application of GIS data in game design, showcasing creativity in using spatial data for visual enhancement.

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, Office 365, Blender

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

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