

# Ernest Sarna

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## SUMMARY

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Software Engineering graduate from the University of Calgary with a strong foundation in full-stack development and expertise in database management. Proficient in both front-end and back-end development, with a particular emphasis on front-end technologies. Demonstrates practical, hands-on experience through a portfolio of diverse software projects. Committed to continuous learning, driving impactful contributions, and fostering effective collaboration to ensure the success of team objectives.

## SOFTWARE PROJECTS

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### Roofing Quoting Tool

*Epic Roofing & Exteriors*

- Designed and developed a Microsoft Dynamics application to optimize the process of creating roofing quotes, enhancing efficiency and accuracy for the sales team. Crafted a professional, user-friendly interface leveraging Bootstrap for responsive design and JavaScript to incorporate dynamic interactivity and seamless user experiences. Implemented a PDF saver functionality using html2canvas and jsPDF libraries to enable users to export quotes as high-quality, professional PDFs directly from the application. This feature ensured consistent formatting and streamlined document handling.

### Fedora Learning

*SENG513 – Web-Based Systems - [project.fedora.mom](https://project.fedora.mom)*

- Designed and developed a mock educational application to support online learning for students and professors, focusing on user accessibility and functionality. Led the front-end implementation using React to build dynamic, interactive user interfaces, ensuring smooth navigation and responsiveness. Utilized CSS for detailed styling to create a visually appealing, intuitive design that aligns with modern web standards.

### Bookstore Website

*CPSC471 – Database Management Systems*

- Developed a mock Java application for a local bookstore, allowing users to browse and purchase books from both normal and on-sale inventory, as well as track future releases. Managed the database by creating ERD and Relational Model diagrams and subsequently developed the SQL database and its functions to ensure proper interaction. The final application featured a functional webpage interface that updated inventory amounts after each purchase.

## KEY SKILLS

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- Programming Languages:** C++, Java, JavaScript, HTML, CSS, SQL
- Technologies:** React, Bootstrap, jQuery, jsPDF, JUnit, Git, Selenium
- Other:** JIRA, Microsoft Office, Photoshop, Illustrator

## EDUCATION

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### University of Calgary

*Bachelor of Science, Software Engineering*

- GPA:** 3.7/4.0
- Relevant Coursework:** Principles of Software Development, Principles of Software Design, Data Structures & Algorithms, Software Testing Reliability & Quality, Database Management Systems, Web-Based Systems