

ELSA KO



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Ottawa, ON

PROJECTS

● MOBILE ANDROID APP

Database, Android Studio, XML files, Emulation, Project Management

- Managed and collaborated with a team of 5 to develop a mobile android app over 4 months.
- Implemented Firebase dependencies and cloud storage in Android Studio to query and fetch from a database.
- Designed XML files to create cohesive, and functional UI

● CLIENT-SERVER CHAT PROGRAM

OCSF Framework, Threading, Java

- Built java client-server socket program implementing the OCSF framework that allows clients to send messages to each other.
- Explored multi-threading with console outputs

● NUMERICAL COMPUTER

Quartus, ALU, Control Unit, MIF files, Assembly

- Drew logical circuits to build a numerical computer in Quartus software using registers, a bus, and other components.
- Designed logic to implement a 'complete' instruction set
- Wrote programs in assembly to run on the computer using MIF files.

EXPERIENCE

● PEEL INTERNATIONAL LANGUAGES

Staff Assistant
2017 - 2020

- Demonstrated leadership and management skills by recruiting and training new volunteers
- Coordinated and marketed school-wide cultural events
- Created and maintained spreadsheets of technological resources

● MISSISSAUGA BALLET ASSOCIATION

Assistant Ballet Demonstrator
2018 - 2019

- Developed strong leadership and communication skills in teaching children (aged 4-10) ballet with another instructor.
- Choreographed dances with live pianist, demonstrating creativity and teamwork

SKILLS

- **French** B1-B2: Immersion Student
- **Cantonese:** Conversational
- Java, Python, Assembly
- Computer Literacy, Office
- UML Design Principles
- Leadership
- Mobile App Development
- Communication
- Software Design Patterns

EDUCATION

HONOURS BACHELOR OF SCIENCE IN COMPUTER SCIENCE

University of Ottawa, **CGPA 9.8/10**

French Studies Bursary, 95%+ Average Merit Scholarship

Graduating 2025

RELEVANT COURSES

Databases, Statistics, Data Structures and Algorithms