DAIZZAH BOTOY

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EDUCATION

Bachelor of Science in Engineering – Computer Engineering

University of Saskatchewan | Saskatoon, SK   September 2019 – November 2024

- **Graduated with Great Distinction**
- **Dean's Honour Roll** (1st to 3rd year)
- Member of the Golden Key Honour Society, which is an invite only society for **sophomores** who are at the **top 15% of their program**

SKILLS

Software

- Programming Languages: **Python, Java, Kotlin, C, C++, TCL, HTML, CSS, TXL**
- Web Development Frameworks: **Django, React, AJAX, Node.js**
- Proficient in working with **Windows and Linux**
- **Docker**: Experience in containerization and deployment while working a website for a class
- Database Management: **SQL** (MySQL, PostgreSQL)
- Able to type at a speed of **80+ WPM** due to years of experience with computers, but also by continually practicing my typing skills

Hardware and Embedded Systems

- Designed **microprocessor-based embedded systems**, including interfacing with peripherals like **LCDs**, **motors**, and **analog sensors**.
- Experience working with **Raspberry Pi for IoT projects**, including **interfacing with sensors (motion, sound, etc.)** and **GPIO devices**.
- Hands-on experience with **FPGA design** using tools like **Xilinx** and **Altera** for digital logic circuits and memory management.
- Knowledge of **VLSI design and simulation** tools like **Cadence**, focusing on **CMOS logic and circuit layout**.

Collaboration

- Able to **communicate and work effectively with a team** which I learned through my previous job as a Student Software Developer and design project experience during university
- Completed a few **design projects**, and took multiple courses that required **proper documentation** to track the design progress through **letters**, **memos**, and **reports**

JOB EXPERIENCE

Student Software Developer

Calian Advanced Technologies | Saskatoon, SK   May 2022 – August 2023

- **Worked with a team of 7+ developers** to maintain and improve a **graphical user interface (GUI)** designed to communicate with satellites
- Our team worked under **Agile scrum** methodology with daily stand-ups, **2-week sprints**, and **review/retrospectives** to reflect on our progress
- Coded and reviewed software in **Python, Java, C++, Kotlin, and TCL**; specifically **wrote unit and system tests** in Python, Java, C++, and TCL
- Utilized **Git version control** to manage and track code changes in **command line**

PROJECT EXPERIENCE

Capstone Project: Website Development for Medical Record Encryption

University of Saskatchewan| Saskatoon, SK   September 2023 - March 2024

- **Worked with a team of 4 peers** in the development of a website prototype with encryption and decryption functionalities for medical purposes, enabling hospitals and doctors to securely store and manage patient files
- Implemented encryption algorithms using **Python** and **Django** to ensure data security and privacy compliance in accordance with healthcare regulations
- Developed user interfaces and interactive features using **HTML**, **CSS**, and **JavaScript**, tailored to the needs of medical professionals and administrators
- Managed project timelines, client communications, and deliverables, resulting in successful project completion and client satisfaction

REFERENCES

Available upon request