

FERAS ALJOUDI

Virtual Resumes: [Version 1](#) | [Version 2](#)
Email: feras.aljoudi@gmail.com | Cellphone: (306)209-1033

EXPERIENCE

COOP-Bioinformatic Programmer, Agriculture&Agri Food Canada, Remote SEP. 2022-APR. 2023

- Comprehensive documentation of software tools and workflows.
- Generating dot plots using Gnuplot software and Mummer software in Linux.
- Genetic variant identification using C++, Java, and Python languages.
- Advanced Data Analysis through Sequence Comparison.
- Impact on public health through Bioinformatics.

COOP-Electrical Engineering Intern, SaskPower, Regina

JAN. 2022-Aug. 2022

- Preparing contract's documents between SaskPower and the contractors.
- Contacting various vendors and purchasing the required equipment through emails.
- Preparing Excel sheets and PowerPoint presentations in Microsoft 365.
- Identifying the scope of work with the contractor while visiting the field.
- Uninstalling relays and switches and salvaging them in the proper containers.

Store Manager, YM Inc Urban Planet, Regina

NOV. 2018-DEC. 2021

- Managing schedules and making sure the store needs are covered.
- Making monthly sales targets.
- Analyzing the business based on the top sellers in the store and the company.
- Assisting customers and making sure they were satisfied before they left the store.
- Managing the wage cost for the store and performing partnership with other banners.

Project Coordinator, ZGEMI, Regina

JAN. 2018 - MAY. 2018

- Supervising the laborers and making sure the tasks were getting completed.
- Measuring the area of the rooms and walls.
- Completing the final report for each room and reporting any uncompleted work.
- Recording and adding the employees hours and wage through the Microsoft Office – Excel.

SKILLS

- **Programming:**
 - C++, C, Python, Java
 - HTML, CSS, React, Vue, JavaScript, PHP
 - ARM and MIPS Assembly
 - Database Management:
 - SQL, MySQL
 - Firebase (Real-time database, Authentication, Cloud Messaging, etc.)
 - Hardware Design and Simulation: VHDL
- **Web development:** WordPress, Figma
- **Modeling programs:** Implement the best solution based on the needs by Solid Edge
- **Management Skills:** Leveraging expertise in interpersonal communication, team leadership, and strategic business analysis
- **Language:** English and Arabic

PROJECTS

- **Machine Learning and Image Processing (ENSE412 class), Apr. 2024**
 - Developed a Driver Drowsiness Detection model using Python and TensorFlow, implementing a Convolutional Neural Network (CNN) with a pre-trained VGG16 model.
 - Explored various machine learning algorithms and integrated the CNN model into a Flask-based web application for real-time image analysis.
 - Achieved high prediction accuracy, documenting the project development process and model performance analysis in a detailed Jupyter notebook.
 - To view full details: [DriverDrowsinessDetection](#)
- **STM32-Based Smart Parking Management System (ENEL351 class), Mar. 2024**
 - Engineered a smart parking solution using STM32 microcontroller, featuring real-time parking availability display, automated gate operation, and fire alarm.
 - Integrated various sensors including pressure, infrared, and gas sensors to manage parking operations efficiently.
 - Programmed the entire system in embedded C with a modular design approach for easy maintenance and scalability.
 - To view full details: [AljoudiParkingSystem](#)
- **Web Development for SK. Career Development Association (SKCDA), Jul. 2023**
 - Collaborated with a team to design and launch a WordPress-based website aimed at supporting Career Development Practitioners across Saskatchewan.
 - Engaged in the full project lifecycle from conceptualization to deployment.
 - Integrated features for member engagement, leveraging WordPress's versatile platform.
 - To view full details: [SKCDA Project](#)
- **Embedded Systems and Interactive Game Design (ENSE352 class), Nov. 2023**
 - Engineered a Simon Game using C with an STM32 Nucleo Board for hardware interfacing, featuring 10 levels of increasing difficulty, input handling, and visual feedback.
 - Utilized classic "Cylon Eye Scanner" start sequence and level progress/failure indicators.
 - Applied time constraints to user inputs for enhanced gameplay challenge and utilized an isolated resistor for LED current regulation.
 - To view full details: [SimonGame](#)
- **FPGA-Based Digital Scheduling and Display System (ENEL384 class), Nov. 2023**
 - Developed a class scheduling digital circuit on a BASYS-3 FPGA board using VHDL in Vivado, featuring multiplexed display logic for rapid switching.
 - Integrated LED indicators for class selection and weekly schedule display to enhance user experience.
 - Demonstrated proficiency in digital system design and FPGA programming, showcasing practical application of hardware description languages.
 - To view full details: [ClassesSchedule](#)

EDUCATION

Bachelor of Applied Science-Software Systems Engineering, University of Regina, Degree **PRESENT**

REFERENCE

Nick Dietrick

Manager for Construction Stations, SaskPower

C: 1 (306) 789-0591 | ndietrick@saskpower.com

Puneet Kaur

Co-Manager, Urban Planet

C: 1 (639) 560-3413 | deolpuneetkaur@gmail.com