FERAS ALJOUDI

Virtual Resumes: Version_1 ▌ Version_2
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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. 2022

- 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

- **Programing**:
  - ➢ 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

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