Bhav Culleechurn

(226) 343-6800   github/bculleec   bculleechurn@woodrill.com

Education

University of Guelph – Bachelor of Computing in Computer Science   Sep 2020 - Dec 2024
Honours Computer Science with a Minor in Psychology

Experience

Software Developer | Woodrill Ltd., Groundwork Department   Guelph, ON – June 2024 – Present

- Contributed to the development and maintenance of Woodrill's internal digital soil mapping portal *groundworkag.com*
- Implemented features using JavaScript and PHP, including interactive tools for editing and visualizing geospatial soil data.
- Supported internal workflows through custom GIS-related utilities and assisted with general programming tasks across the department.

Skills

Languages: JavaScript, PHP, C, Java, Python, HTML, CSS, SQL (PostgreSQL, MySQL, MariaDB)
Frameworks & Technologies: Node.js, Fastify, Express.js, Docker, React, Spring Boot, Flask, Git
Methodologies & Practices: Agile (Scrum) Process, Unit Testing, Static Code Analysis, RESTful APIs

Academic Projects

GeoJobSearch, Full Stack Web Application - *React, Spring Boot, MySQL, MariaDB, Docker, Python, Java*
- Developed a full-stack job searching web application as part of a 6-person Agile team.
- Built React frontend interfaces and Spring Boot backend services with RESTful APIs and user authentication.
- Designed MySQL schema and implemented web scraping in Python with BeautifulSoup to populate job listings.

LSTM-RNN-Based Sign Language Video Recognition - *Python, TensorFlow, OpenCV*
- Implemented a Sign Language Video Recognition system using LSTM-RNN architecture in Python, utilizing TensorFlow models for RNN and LSTM layers.
- Conducted preprocessing on the WSASL dataset to prepare it for training and evaluation, ensuring data quality and consistency.
- Performed a comparative analysis of various models to evaluate their performance, and collaborated with another student to compile the findings into an academic-style research paper, contributing to the advancement of sign language recognition technology.

C Language Compiler - *Java*
- Built a simplified C compiler in Java with lexical, syntax, and semantic analysis.
- Generated syntax trees, symbol tables, and intermediate code with performance-focused design.

Personal Projects

cozy-beige-theme, VS Code Theme   github.com/bculleec/cozybeige-theme
- Created a minimalist beige theme for Visual Studio Code, achieving 1500+ downloads and a 5-star user rating

Certifications

Applied Suicide Intervention Skills Training (ASIST)   University of Guelph, Guelph, ON – Feb 2024