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PROJECTS

Write That Down (In Development) :

- a MERN stack web application that allows users to quickly make notes and share them with anyone online.
- Users can create accounts and save their notes into a MongoDB database that will instantly appear on screen once made.
- Clients can view public notes while they are being posted/edited and also edit their own notes instantly.
- Used axios for http requests and attached Bearer token for secure usage of API.
- Worked with Express.js for development of RESTful web services and middleware configurations.
- Made use of passport.js to authorize and authenticate users registering or logging in.
- Utilized React's useState, useEffect, useReducer, and useRef to manage user input/output.

Analog Gauge Reader (Dec 2019):

- Developed and designed a web application with a team of four, which analyzed aircraft gauges using computer vision algorithms.
- We utilized Python's OpenCV library, PHP, JavaScript, CSS, HTML, and MySQL.
- Developed user authentication/authorization using STATE in PHP
- Wrote JavaScript functions to handle complex form validation, multiple windows targeting, and dynamic form element updating.
- Architected and developed a MySQL database to maintain user's profile and data from analysis
- Travis CI was integrated with Git to run unit tests while commits were made on repositories.
- Data pipelining was utilized to send JSON files back and forth between JavaScript, PHP and Python.

Mapping For a Change (April 2018):

- Created a website with a XAMPP stack to match customers with low income housing options for living based on the clients housing database.
- Customers would select certain requirements on a form that would be processed through a ranking algorithm with PHP to match the customer with hundreds of options.
- In order to develop with a team of six, we used git for version control and managed tasks using trello.
- Applied Scrum as our agile development methodology.

Trap Buzz (Dec 2017):

- Spearheaded a blogging website for multiple topics including sports, music and travel.
- This project was developed with a partner utilizing HTML, CSS, JavaScript(JQuery), MySQL and PHP.
- We used AJAX to manage asynchronous requests such as updating, creating or deleting blogs and comments.
- Users could view hot topics, search for posts based on a key word and view specific genres to their liking.

LANGUAGE SUFFICIENCY

- **Proficient Coding Capabilities:** React and 4 years of experience with Java and JavaScript
- **Familiar Coding Capabilities:** Python, C#, PHP, SQL, MATLAB, CSS, and HTML
- **Novice Coding Capabilities:** NodeJS, React-Native, R and XML

NOTABLE SKILLS

- **Project Management:** proficient with agile management and continuous integration using Trello, Slack, and Travis CI
- **Data Analysis:** Skilled with techniques for computation, analysis, and visualization of data using python
- **Data Structures and Algorithms:** A good understanding of organizing data using the right data structures and algorithms to solve a specific problem in less time with less space
- **Object Oriented Programming (OOP):** Years of OOP experience using Java
- **IDE/Text Editor Experience:** Hands on experience with Android Studio, Eclipse, Visual Studio, and Atom
- **OS & Tools:** Comprehensive knowledge of Windows Command line and all Microsoft Office applications, including Project, Excel and Access
- **Excellent communication skills:** Ability to demonstrate effective communication with both technical and non-technical individual

RELEVANT COURSEWORK

- **Software Engineering:** specification, design, implementation, testing and maintenance
- **Computer Vision:** image segmentation, feature detection and image processing
- **Networks:** TCP/IP, network programming, routing, addressing, congestion control, error handling, security and network management
- **Analysis Of Algorithms:** Big-O notation, searching, sorting and dynamic programming
- **Web Development :** Git version control, XAMPP stack, JavaScript, HTML and CSS
- **Databases:** Relational databases, querying with SQL and designing with UML

EDUCATION

University of British Columbia

Bachelor of Science, Major in Computer Science

Kelowna, British Columbia

Graduated: December 2019