
Joban Dhindsa

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Education

May 2021 **University of Windsor | Windsor, ON**
Honours Business Administration and Computer Science with Co-op

Courses Taken

Data Structures (*Stacks, Arrays, time/space complexity*)
Software Analysis and Design (*Agile Methodology*)
Database Management Systems (*ER Models, MySQL, SQL*)
WWW Info System Development (*HTML, CSS, JS, Php*)
Object Oriented Programming (*Java*)
System Programming (*Unix, system calls*)
Object Oriented System Design (*C++*)
Computer Networks (*Network architecture*)

Skills and Abilities

Languages/Markup: Python, Javascript, HTML, CSS, Java, C++, C, Php, SQL

Applications/Frameworks: Django, React, MySQL, Github, Git, Bootstrap, Drupal, Wix, Squarespace, WCAG, Visual Studio Code, Microsoft Office (Excel, Word, Powerpoint, Access, Outlook), Wireshark

Projects

Fantasy Basketball Analyzer

Solo engineered a web-based Fantasy Basketball Analyzer to enable 'what-if-analysis' and simulate trade before execution of the transaction. Architecture included sourcing of the KPI from public repositories, transpose the data to persist on document database, and self-serve mechanism to enable on-demand statistical analysis.

- Successfully developed a data harvesting mechanism to scrape data from number of public repositories. Implementation included refresh capability to ensure analysis is based on current data.
- Using SQLite, successfully transpose and maintained the KPI's into an SQLite database. Designed the data structure based on the available categories and anticipated statistical analysis.
- Designed application using Django web framework to support access to common data repositories and JS/HTML/CSS from scratch to support standardized front-end design.
- Implemented mechanisms to sanitize data with focus on data deduplication and seamless data refresh.
- Developed a recommendation algorithm using Python libraries including Pandas, Sklearn, Numpy to generate linear regression prediction model.
- Based on the historical data, constructed mechanism to validate model efficacy to sustain 70% accuracy rate across 300+ players. Capability also highlighted trend anomalies and outliers.

Need of Supply

Designed and developed a fully functional e-Commerce application to support school supplies and memorabilia. Development was an indigenous effort with concerted focus on avoiding use of any existing frameworks. Key features include inventory management, search capability, and secure transaction workflow.

- Engineered a data model with focus on normalization and extendibility. Leveraged inbuilt database support for JSON datatype to reduce workflow complexity and improve adoptability.
- Successfully spearheaded the development of authentication mechanism using PHP and secured credentials using hash techniques.
- Using CSS Flexbox, designed and implemented a responsive website to enable multi-channel accessibility.

- Leveraged defensive programming best practices to address majority of top 10 OWASP security risks including SQL injection prevention, HTML injection prevention, form auto repopulation, form validation, and error feedback given to user.
- Optimized user experience by enabling asynchronous updates to shopping cart and inventory using JavaScript and AJAX.
- Developed secure persona to enable personalized recommendations and persistence of the shopping cart. Designed and implemented fine grain role-based access control to enable multitenancy.

Experience

Software Developer

University of Windsor | Windsor, ON | Sep 2020 – Dec 2021

Worked with a team of 3 developers to maintain official website for the University of Windsor. Designed and developed frameworks using Drupal CMS to enable departments to self-manage copywrite content.

- Designed and developed global CSS and standardize themes in accordance with the WCAG 2.0 accessibility guidelines for all University official websites.
- Design and implemented complex web forms to automate workflow and allow persistence of no textual data. Implementation included verification of authenticated users, form validation, and form auto population.
- Using Python and Selenium framework, implemented a web scraper to inventory and remediate usage of lotus notes link.
- Collaborated with the department leads to design optimal user interface which enabled access to any link in less than 3 clicks.
- Verse with agile development methodology; successfully collaborated with product owners and scrum master to deliver desired functionality on schedule.

Software Developer

Odette Commerce Society | Windsor, ON | Sep 2017 - May 2020

Spearheaded the design and development of the official website for the Odette Commerce Society which serves as single point of contact for information on academic, philanthropic, and social events for 1600 students. Implementation included development of complex forms to triage various funding requests and support multiple firmware.

- Led multiple JAD sessions to collaborate with department lead, and society leadership to brainstorm avenues to incorporate student needs, leading to development of robust backlog items.
- Designed user interface with focused on ease of use, accessibility, and readability across both desktop and mobile platforms.
- Designed and documented self-serve site maintenance mechanism to empower department leads to update frequently evolving content.
- Leveraging Google analytics, restructured the page content and layout to help shape the web traffic to enhance user experience. Successfully marketed unique hits per month to host number of high-profile fundraisers.

Digital Media Coordinator

ArcelorMittal | Windsor, ON | May 2018 – Aug 2018

Edited videos and photos which were then uploaded to the private company website to be used for internal training and instructional purposes.

- Uploaded and managed company website which holds and stores all safety/training videos, to allow for easy access for all new employees.
- Coordinated with supervisors on ideas for videos and how to incorporate them onto the website.
- Worked primarily using iMovie and Photoshop for editing purposes and HTML/CSS for web development.