Catherine Sara Joseph

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EDUCATION

University of Toronto | Mississauga, ON

B.S. in Computer Science   **Sep 2019 – May 2024**

Minor in Business, Science & Entrepreneurship | Philosophy of Science

Relevant Courses: CSC108/148: Python • CSC309: Web Programming • CSC318/CSC428: UI/UX • CSC236/CSC263: Data Structures • CSC343: Databases & SQL • STA256: Statistics & R • CSC398: Ethics in Computer Science

SKILLS

Programming Languages: Python, Java, HTML, CSS, JavaScript, SQL, R

Tools: Git, Microsoft Power Automate, Carto, PowerBI, Figma, UI/UX Design principles, Microsoft 365 Suite

PROFESSIONAL EXPERIENCE

Developer (Data Analytics & Business Intelligence Intern) | Arcadis-IBI | Toronto, ON   **Sep 2022 – Aug 2024**

Sep'22-Aug '23 (Full-time) | Sep'23-Aug '24 (Part-time)

- Developed and implemented process automation workflows to capture organizational knowledge and improve internal business processes related to manual data collection, consolidation and distribution.
  - Developed code for website scraping and data parsing, storage and retrieval using Python, Microsoft Excel, SQL & Microsoft SharePoint with code flow automated through Microsoft Power Automate and Azure VM.
  - Developed test environments and conducted troubleshooting when required.
  - Worked in a team, using Git to consolidate code and Atlassian Jira to assign and coordinate tasks.
- Developed website engagement tools using Carto, HTML, CSS, JavaScript, Git, including front end design and integrated layered maps for client interaction and storage of user input in back-end database, displayed on map.
- Assisted in product development management for client geodata based mobile application.
  - Developed design requirements based on objective, client discussions, and user groups, including user experience, functional requirements and flow charts for application process workflows.
  - Developed test cases for features and user flows, conducted virtual and on-site testing with client and documented errors and feedback for further development.
  - Developed documentation, user guide and assisted in client training session.
- Conducted data cleaning and analysis using Python, SQL, Jupyter Notebooks, and visualization using PowerBI to analyze tags for geo-sensor system.

Web Analytics Intern | University of Toronto | Mississauga, ON   **Sep 2020 – March 2021**

- Created content and worked with Drupal to edit and manage webpages.
- Analyzed user interaction data using Google Analytics to conduct research.
- Developed improvements to user interface and experience of the website.

Software Intern | Gulf Business Machines | Dubai, UAE   **July 2018 – August 2018**

- Company profiling & analysis, software development documentation (proposal forms). Job Shadowing.

PROJECTS

Personal Website | Developed using HTML, CSS and JavaScript, responsive design techniques and hosted on GitHub.

Personal Journal App & Social App for Gamers (UI/UX)

Conducted user analysis with primary and secondary research, developed design requirements, and personas, created low fidelity prototypes, conducted usability testing, cognitive walkthrough and heuristic evaluation. Developed high fidelity prototypes using Figma, conducted A/B testing and developed documentation.

IB Revision System

A Java application that serves as a revision tool with questions and quiz generator for students & administrative functions, progress tracking for teachers. Developed on NetBeans IDE using Swing GUI toolkit and MySQL databases.