

MITEN SONI

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EDUCATION

University of Ottawa

Honors B.Sc. in Computer Science (Data Science option)

Ottawa, ON

2020-present

- Relevant courses: Data Structures & Algorithms, Principles of Software Engineering, Databases.
- Merit scholarship/Dean's honor list: Winter 2022, Fall 2022.

EXPERIENCE

Ribbon Communications | Cloud & Edge

Backend software development intern

Ottawa, ON

Jan 2023-Apr 2023

- Investigated potential ways to separate deployment-specific configuration information from Angular UI code to allow deployment of previous loads from Artifactory of the One Portal app to AWS CloudFront.
- Implemented new stages in the Jenkins deployment pipeline to allow 4 deployment options: build only, build and install, install from archive and update config and wrote a script to perform a clean update on an existing DynamoDB table using scan, delete and put.
- Migrated the One Portal app to AWS CDK version 2 and upgraded the AWS SDK for JavaScript from v2 to v3.
- Set-up Single-Sign-On with Salesforce as the identity provider and AWS Cognito acting as the service provider.
- Implemented Geo-restrictions using a configured block/allow list.
- Completed Kubernetes and DevSecOps training.

University of Ottawa | IT Department (Web services team)

Web developer Intern

Ottawa, ON

May 2022-Dec 2022

- Worked as part of an agile team to upgrade the uOttawa websites and web apps from Drupal 7 to Drupal 9 with a redesigned modern theme and user-friendliness using PHP7, JavaScript, HTML and CSS.
- Migrated and integrated widgets and I-frames including OMNI, ASK chat and databases from drupal7 to drupal9 styling them to match the modern uOttawa site themes.
- Responded to high priority tickets involving changes to fix web app security weaknesses and web content changes.
- Utilized Cypress tool to fully automate QA end-to-end testing for views.
- Used bash scripting to enable execution of existing pa11y scripts on DDEV.

PROJECTS

Dental Clinic Management System | Java, Spring, PostgreSQL, Thymeleaf, HTML, CSS

- Designed and developed a web application for a dental clinic to book and manage appointments, dentist and patient records and user accounts, using Spring web with the Model-View-Controller pattern.

Prizm Color Detector (Hack the Hill 2023) | React, Python, SocketIO, OpenCV, Pandas

- Developed a web-app in under 20 hours to allow colour-blind users to identify the colour of any object by clicking on the live video feed from their camera.

Rate my Prof data analysis | Python, Pandas, Scikit-learn, Altair

- Performed analysis on data scraped from the ratemyprof website for uOttawa using methodologies such as hypotheses testing, correlation coefficients, feature selection and prediction using regression-based models to examine and report the factors that influence a student's satisfaction and the professor's rating for a course.

Byblos Mobile Application | Java, Android Studio, Git, Firebase, CircleCI

- Designed and built an android application as part of a team for a car/truck rental business with 3 authenticated user types: admins, branch employees and customers focusing on UML concepts.

DBSCAN Application | Java, Go, Prolog, Scheme

- Implemented an application based on the DBSCAN algorithm to analyze taxi driver's departure location and wait times to determine the most active waiting zones. Applied the MapReduce pattern to implement the algorithm concurrently using Go.

Technical Skills

Languages: Java, Python, Go, SQL, PHP, JavaScript, HTML, CSS

Technologies: Drupal, AWS CloudFront, Docker, Kubernetes, Jenkins, Firebase, CircleCI

Frameworks: SpringBoot, Thymeleaf, Junit, React, OpenCV, Cypress

Development Tools: Git, Bash, Jira, Confluence, Visual Studio, Android Studio, Jupyter Notebook