

MITEN SONI

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EDUCATION

University of Ottawa

Ottawa, ON

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

2020-present

- Relevant courses: Data Structures & Algorithms, Databases, Algorithm Design, Software Design, OS
- Merit scholarship/Dean's honor list: Winter 2022, Fall 2022.

SKILLS

Languages: Python, Java, Go, Javascript, Bash, HTML5, CSS3, SQL, Scheme, Prolog.

Technologies: AWS (CloudFront, CloudFormation S3, DynamoDB, Cognito, Lambda), Drupal, Docker, Kubernetes, Jenkins, Firebase, CircleCI, Postgres, MySQL, OpenStack, Ansible.

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

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

EXPERIENCE

Ribbon Communications | Cloud & Edge

Ottawa, ON

Backend software development intern

Jan 2023-Apr 2023

- Separated deployment-specific configuration information from the Angular One Portal app to enable re-use of Generally Available loads in Artifactory for an 'Install only' deployment to AWS CloudFront.
- Taking advantage of the decoupled configuration, implemented new stages in the Jenkins pipeline to allow 4 deployment options, build only to build and archive the UI for future deployments, a full build and install, install only which uses an archived GA load for deployment and update config. Wrote a script to perform a clean update to a DynamoDB table.
- Migrated the One Portal app to AWS CDK version 2 and upgraded the AWS SDK for JavaScript from v2 to v3 resulting in performance improvement due to bundle size reduction by 75%.
- 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.

University of Ottawa | IT Department (Web services team)

Ottawa, ON

Web developer Intern

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.