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**EXPERIENCE** 

#### Intermediate Software Developer

University of Ottawa, Department of Family Medicine

Nov 2021- Apr 2023

- Developed the whole stack of the Innovation Portal using React and Cloud Infrastructure, a centralized platform hosting a diverse range of learning projects within the Department of Family Medicine.
- Led the development of 6 web applications that provided learning modules, seamlessly integrating them with a centralized platform.
- Managed the development of 3 VR applications, delivering immersive training experience forresidents.
- Utilized Docker to create optimized images for application deployment, ensuring efficient packaging and deployment.
- Provisioned virtual servers to run the applications with EC2 Ubuntu, while leveraging IAM for access management.
- Implemented CloudWatch for monitoring the applications' performance, ensuring optimal and timely issue detection.
- Introduced and implemented agile processes to bring structure to the development of the Innovation Portal apps.
- Provided feedback and guidance on the design of all the applications, ensuring optimal experiences.
- Developed and maintained a REST API that seamlessly communicates with an MSSQL database, ensuring efficient data management and retrieval.

Mentored and oversaw a team of 15-20 interns, ensuring effective coordination and successful project execution.

Tools used: AWS, Azure, Docker, Node.js, Express.js, Cypress, Bootstrap, MUI, SASS, SQL Server 2019, Auth0, React.js, React Native, Next.js, .NET Core 2.1, .NET 6.0, GitLab, GitHub, Confluence, Jira, Firebase, Unity VR, Meta Quest 2.

#### Product Development, Front-end Developer

May 2021 - Aug 2021

Mitel Networks

- Collaborated with development teams, working with both Angular and React apps to create new components and optimize
- Successfully migrated the testing framework from Protractor to Cypress testing efficiency and reliability.
- Designed end-to-end (E2E) and unit tests for Angular components, ensuring code integrity and preventing regressions.
- Utilized JavaScript, TypeScript, HTML, and SCSS to develop high-quality front-end solutions that met project requirements.
- Actively participated in code reviews, providing feedback to ensure code quality and maintain best coding practices.

Tools used: JavaScript, TypeScript, HTML, SASS, StencilJS, Storybook, React, Angular, Cypress, GitHub.

## Communication Projects Assistant, IT and Webmaster

May 2019 - Nov 2021

University of Ottawa, Faculty of Law, Common Law section

- Managed and facilitated the update and maintenance of the faculty's IT system, ensuring smooth operation.
- Provided comprehensive IT support to faculty personnel and professors, troubleshooting hardware and software issues, and resolving technical problems promptly.
- Employed tools listed below to enhance the functionality and design of the faculty website.

Tools used: Drupal, SQL, Kace, HTML, CSS, Javascript, Campaigner, Adobe Lightroom, Sony Vegas Pro, Office 365.

Software Tester Sep 2020 - Dec 2020

BlackBerry

- Actively participated in all aspects of software testing, collaborating with testers, developers, and project stakeholders.
- Designed and implemented manual test cases for BlackBerry Security Applications, ensuring comprehensive coverage and adherence
- Responsible for performing hands-on testing of new features to ensure product functionality is working according to specifications.
- Analyzed and reproduced complex problems within test environments based on test results and customer-reported inquiries.
- Utilized tools such as IIS (Internet Information Services) and Windows Server 2012 to create and manage testing dashboards, facilitating efficient testing processes.

Tools used: IIS, Windows Server 2012, Jira, Confluence, TestRail.

## **Localization QA Specialist**

Jan 2020 - Apr 2020

OpenText

- Conducted Quality Assurance (QA) activities, including testing and verification of localized products to ensure accuracy and adherence to localization standards.
- Maintained documentation and generated reports for various aspects of project.
- Worked on scripting and parsing using Regex and Java, automating processes, and facilitating data manipulation.
- Utilized programming languages such as Java and Python to develop software solutions to improve productivity and enhance project
- Leveraged tools listed below for localization and QA activities, facilitating efficient localization workflows.

Tools used: Java, Python, Secure Shell, Ruby, SDL Passolo

### **PROJECTS**

# CyberGlove

Developed a glove to translate hand movements into American Sign Language (ASL).

Tools: Arduino, Raspberry Pi, MPU 6050, MQTT, Python, PCB Wiring, GitHub.

# VR Escape Room

Developed an interactive and challenging Escape Room in Virtual Reality using Unity for a Meta Quest 2 headset.

Tools: Unity, Meta Quest 2

## ServiceProvo

Designed and developed an Android app with Java that connects clients with services providers (e.g., plumbers, gardeners). Tools: Android Studio, Java, XML, Firebase, SQL, GitHub

Created an app that dynamically manages leaderboards for athletes in various competitions with customizable ranking methods. Tools: PostgreSQL, Javascript, XML, HTML, CSS, GitHub

## Real-time systems project

Developed a subsystem to monitor and control energy levels from solar panels using an Arduino terminal. Tools: C, Arduino, AM335x, CodeComposer, Doxygen, BitBucket

## **EDUCATION**

# University of Ottawa

Bachelor of Applied Science in Computer Engineering, Cum Laude