Daksh Dua

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EDUCATION

Saint Mary's University   *Halifax, Nova Scotia*
Bachelor of Science   *May 2020*
Double Major: Computer Science and Business Administration

CERTIFICATIONS

AWS SysOps Administrator   *February 2021*
AWS Solutions Architect   *October 2020*
AWS Cloud Practitioner   *July 2020*

AWARDS AND RECOGNITIONS

Amazon Web Services.   *Toronto, Ontario*
Outstanding Performance Award   *April 2021*
Won the TAM quarterly award for outstanding performance within first 10 months of joining the company. This award is presented to the candidate if they raise the bar in performance and lead collaboration with cross functional teams to deliver high customer satisfaction and exceptional results.

SURGE- Dalhousie University   *Halifax, Nova Scotia*
Neuro Hackathon   *March 2019*
Attained 1st place position for developing a Brain Computer Interface application using electroencephalogram (EEG), python and Jupyter Notebook to track electrical signal activity of the brain to detect Theta waves, to identify if a person is getting drowsy and wake him up with an alarm system.

NASA   *Halifax, Nova Scotia*
NASA Space Apps Challenge   *October 2019*
Achieved 1st place out of 13 teams by solving the Ocean Cleanup challenge by NASA by designing a modular research system to track the density and concentration of micro-plastics in the ocean(s) and to remove them out of the surface of water.

Massachusetts Institute of Technology/NASA   *Los Angeles, USA*
Minor Planet (Intel ISEF)   *May 2014*
Honored with a minor planet after my name from Massachusetts Institute of Technology, USA under CERES connection program for winning the Intel International Science and Engineering fair.

RELEVANT WORK EXPERIENCE

Amazon Web Services   *Toronto, Ontario*
Enterprise Technical Account Manager   *June 2020 – Current*

- Engaging with Director and C-Level executives to understand business needs and presenting periodic business reviews of operational performance to the leadership to reduce cost and complexity.
- Using technical acumen to provide architectural guidance, Proof of Concept and making recommendations on how new AWS offerings fit in the company's architecture.
- Providing advocacy and strategic technical guidance to help plan and build solutions using best practices, and proactively keeping customers' AWS environments operationally healthy.
- Developing/maintaining close relationships with customers to understand their business/operational needs and technical challenges and helping them achieve the greatest value from AWS Cloud.
- Leading all the aspects of helping customers with critical events (migration, launch, peak events, etc...). and troubleshooting technical issues and driving issue escalation with AWS Service teams.

Construction Safety Nova Scotia   *Dartmouth, Nova Scotia*
Information Technology Specialist   *April 2019 – May 2020*

- Configured company's Learning Management System by using SCORM (Sharable Content Reference Model) to standardize learning objects and promote portability of training modules.
- Designed and developed SharePoint site as a cloud repository for company documents by analyzing and planning goals for the next sprint of the project using agile methodology.

- Prepared IT policies and documents highlighting the network topology, SharePoint site directory structure, users/groups, active directory accounts, workflows, branding and custom web features.

Sobey School of Business   *Halifax, Nova Scotia*
Machine Learning Research Assistant   *October 2018 – August 2019*
- Used Wayback machine and python to extract screenshots of archived webpages of large set of companies, to study the relation between the website color content over time and EPA violations.
- Coded algorithms using Python and Beautiful Soup for web scraping, to automate collection of federal and provincial government procurement contracts and financial documents.
- Engineered machine learning algorithms using TensorFlow API and Python to analyze large data sets of public financing programs for private companies. Developed deep learning algorithms to predict USA Gubernatorial election results

Jetasonic Technologies Inc.   *Dartmouth, Nova Scotia*
Software Engineer   *January 2018 – April 2019*
- Designed and developed a general user interface for real time sea bottom tracking and high-resolution sea bottom imaging.
- Engineered algorithms using C++ and Qt 5.11 framework to process raw data signal transmitted from sonar head in real time over TCP network to plot sea bottom image on the GUI.
- Implemented the dynamics and controls for embedded systems of autonomous water surface vehicle. Programmed radio frequency transmitter (rfm69), motion sensor, GPS using Arduino Uno and Arduino Pro microcontroller.
- Prepared status reports documentation, Software Requirements Specification, Software Compliance Matrix and created detailed and well-structured test plans, scenarios, and test cases.

Saint Mary's University   *Halifax, Nova Scotia*
Website Designer   *October 2017 – May 2018*
- Maximized user experience though analysis of web metrics and redesigning the residence life section of Saint Mary's University website.
- Used TerminalFour Web Content Management System, to redesign the content and organizational layout of the website. Hosted training modules for student leaders in Microsoft Office 365.
- Researched keywords and created unique SEO optimized content, including written and graphics, to aim for a 1-2% keyword density and grow traffic.

Saint Mary's University   *Halifax, Nova Scotia*
Research Assistant   *May 2016 – December 2016*
- Played a major role as a part of three-person agile team to develop an Enterprise Resource Planning (ERP) web application to provide central repositories for all the information shared by the ERP facets.
- Conceptualized and implemented critical application features including user authentication, integrating web services using HTML5, CSS, JavaScript, PHP, jQuery and assisted in designing the database in SQL.
- Built and helped maintain a web interface, to retrieve decision trees and historical weather information from a mongo database using PHP. Data extracted was used to compute the ideal thermostat settings for a building located at GPS coordinates entered by the user.
- Wrote reports and user manuals summarizing technical subjects in a way that is easily understandable by both expert and non-expert audience.

VOLUNTEERING EXPERIENCE

Amazon Web Services   *Toronto, Ontario*
Volunteer Toy Drive   *December 2020*
- Volunteered to participate in raising money for toy drive for underprivileged children. Raised $15,000 in total to buy toys for Christmas.

Suicide Awareness Voices of Education (SAVE)   *Toronto, Ontario*
Volunteer   *August 2020 – Current*
- Organized " Let's talk about it" events to raise awareness about suicide prevention.

Saint Mary's University   *Halifax, Nova Scotia*
Pack Leader Volunteer   *August 2017 – September 2017*
- Welcomed new students to the university and organized multiple events both on and off campus.