

Akshay Patel

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OBJECTIVE

New Graduate with Master of Computer Engineering degree from the Carleton University; Pursued subjects of interest in the field of Software Development, Cloud Computing and Supervised Machine Learning; Seeking opportunities to utilize broad educational background with excellent analytical, technical, and programming skills to thrive as a New- Grad Software Developer.

EDUCATION

- Carleton University** Ottawa, ON
 - *Master of Engineering in Electrical & Computer Engineering; GPA: 4.0* Sept. 2019 – May 2021
 - *Coursework:* Cloud Computing Systems and Services, Applied Machine Learning, Neural Networks, Integrated Database and Cloud Systems, Design of High Performance Software, Software Quality, Elements of Computer Systems, Computer Networks, Python Programming
- Dharmsinh Desai University** Gujarat, India
 - *Bachelor of Technology in Information Technology; GPA: 3.88* Jul. 2014 - May 2018

SKILLS SUMMARY

- **Languages:** Java, C#, Python, C++, HTML, CSS, JavaScript, SQL, JUnit, Git
- **Tools:** Kubernetes, Docker, OpenStack, GitHub, JIRA, Oracle 10g, Visual Studio 2013, Eclipse, Orange, WEKA
- **Platforms:** Linux, Web, Windows, WordPress, SQL Server
- **Knowledge:** Data Structures, Algorithms, Database Management, Design Patterns, Cloud Systems

EXPERIENCE

- Graduate Teaching Assistant** Remote
 - *Carleton University* Jan. 2021 - Apr. 2021
 - **Responsibilities:** Graded tests, conducted midterm exams & tutorials, and held office hours every week to help students to solve their doubts for an undergraduate course SYSC4106A - Software Economy & Project Management at Carleton University. Mentored 25+ undergraduate students to improve performance & be successful in the course.
- Software Developer Intern** Nadiad, Gujarat
 - *R & D Centre, Dharmsinh Desai University* Dec. 2017 - Mar. 2018
 - **Project Scope - Understanding Indus Valley Script Using Computational Intelligence:** Researched & Built 3 different tools using Machine Learning and Image Processing techniques in C# & .NET using Microsoft Visual Studio 2013 & SQL Server.
 - **Novel Approach:** Developed 2 novel algorithms for clustering of the different Indus Seal Text images and built a desktop application from scratch to find the similarities between 1840 Indus Valley seal images.
 - **Impact:** Implemented a desktop tool using Convolutional Neural Network with 89% efficiency to digitize the ancient scripts to the digital text to help Historians in their research.

PROJECTS

- **Intrusion Detection System (IDS) for IoT-based Industrial environment using Machine Learning (Supervised Machine Learning):** Created an Intrusion Detection System (IDS) for IoT-based Industrial environment using Machine Learning with an accuracy of 99.99%. **Tech: Python, Keras, TensorFlow, Orange. (Dec. '20)**
- **Customer Churn Analysis using Neural Network (Supervised Machine Learning):** Implemented a Churn prediction software for a Banking institution using the Neural Network with an accuracy of 86.45%. **Tech: Python, Keras, Pandas, TensorFlow. (Aug. '19)**
- **Grocery Shopping Mobile Application (Software Project Management):** Designed and Created an iOS Application aimed to make online grocery shopping that uses the location of the customer and accordingly suggests the stores for different products. **Tech: Xcode, Firebase. (Mar. '17)**
- **E-Commerce website(Web Development, Web Crawler, Search):** Designed an E-Commerce Website such as Amazon with different Triggers in the Database development. **Tech: Oracle 10g, PHP, HTML, CSS, WampServer. (Jan. '17)**

CERTIFICATION

- **CENGN CLOUD SYSTEM SPECIALIST CERTIFICATION:** Modules: LINUX, Networking Basics, Docker & Kubernetes Basics, OpenStack Basics (Apr. '21 - Apr. '24)