

Akshay Patel

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EDUCATION

- Carleton University** Ottawa, Ontario
• *Master of Engineering in Electrical & Computer; GPA: 4.0* Sept. 2019 – June 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** Nadiad, Gujarat
• *Bachelor of Technology in Information Technology; GPA: 3.88* July 2014 – May 2018

SKILLS SUMMARY

- Programming:** Java (proficient), C#.Net (proficient), Python, HTML/CSS, JavaScript, SQL, React.js (beginner)
- Tools/IDE:** Microsoft Visual Studio 2013, VS Code, MySQL, Oracle 10g, Eclipse, SQL Server, Katalon Studio, Sourcetree
- Technologies/Frameworks:** JIRA, Docker, Kubernetes, OpenStack, Linux, Selenium, GitHub, JUnit, WordPress

EXPERIENCE

- IT Systems Assistant (Summer Internship)** Remote
• *Ontario Ministry of Northern Development, Mines, Natural Resources and Forestry* July 2021 – Sept. 2021
 - POC:** Coordinated with a Software Designing team to develop POC(Proof-of-Concept) modules in Java using itextpdf API for the security of the confidential financial government documents.
 - Automation:** Programmed Automation Testing scripts using Selenium Web-Driver and Katalon Studio in an Agile QA/QC team. Modified the existing Automation Testing framework based on Java & Selenium to include more functionalities for the Non-Technical Testers.
 - UAT:** Collaborated in User Acceptance Testing and AODA Testing of the various Ministry software as a Business user.
- Software Developer Intern** Nadiad, Gujarat
• *R & D Centre, Dharmsinh Desai University* Dec. 2017 – Mar. 2018
 - Participated in Project - Understanding Indus Valley Script Using Computational Intelligence:** Researched & Developed 3 different software tools using Machine Learning and Image Processing techniques in C# & .NET using Microsoft Visual Studio 2013 & SQL Server.
 - Novel Approach:** Programmed 2 novel algorithmic approaches 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 for helping Historians in their research.

ACADEMIC PROJECTS

- Intrusion Detection System (IDS) using Machine Learning:** Developed an Intrusion Detection System (IDS) for IoT-based Industrial environment using Supervised Machine Learning Algorithms Naïve Bayes, Adaboost, and Logistic Regression. Experimented and improved accuracy to 99.99%. **Tech: Python, Keras, TensorFlow, Orange. (Dec. 2020)**
- Customer Churn Analysis using Neural Network:** Implemented a Customer Churn prediction software for a Banking institution using the Neural Network. Tested different architectures and optimizer of Neural Network and achieved maximum 86.45% accuracy. **Tech: Python, Keras, Pandas, TensorFlow (Aug. 2019)**
- E-Commerce website:** Built an E-Commerce Website like Amazon for online shopping. Constructed Database in Oracle 10g with different Triggers for the Product Management. **Tech: Oracle 10g, PHP, HTML, CSS, WampServer. (Jan. 2017)**

CERTIFICATION

- CENGN Cloud System Specialist** Kanata, Ontario
• *Centre of Excellence in Next Generation Networks (CENGN)* Apr. 2021 – Apr. 2024
 - Modules:** LINUX Basics, Networking Basics, Docker Basics, Kubernetes Basics, OpenStack Basics

EXTRACURRICULAR ACTIVITIES

- Managed restaurant as a Part-time Shift Manager at Yum! Brands and enhanced customer satisfaction to 97.6%.
- Designed & Created a WordPress Website & Learning portal for a tutor for improved 89% student satisfaction.
- Participated as a Student Member at Ontario Society of Professional Engineers(OSPE) for 1.5 Year.