

ROSHANDEEP SINGH SAINI

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PROFESSIONAL PROFILE

Software Engineer with a strong mathematics background and 5+ years of experience using Machine learning algorithms, and predictive modelling to solve challenging business problems. 2 years of experience facilitating engineering solutions with a wide range of financial application and technology skills at the Bank of New York.

RELEVANT SKILLS

- Proven ability to use a variety of thinking skills to anticipate and solve problems as an Application Developer and a Data Analytics student. Currently working as a Research Assistant in the AIHUB at Durham College.
- Highly skilled in machine learning algorithms, data visualization, statistics, and programming added to critical thinking and problem-solving skill with a wide array of latest technology stack including Python, R-Programming, SQL, and MS Excel.
- Optimized existing stored procedures in the production environment, exhibiting proactivity in a working environment.
- Negotiated a superior collective project requirement for the application in the shortest bargaining time frame in a development team. Strong communication skills including oral and written, presentation skills with a stronghold on MS Office suite.

EMPLOYMENT EXPERIENCE

Research Assistant, AIHUB Durham College

2019 - Present

Soc In a Box, RISZQ, Canada

- Developing a cyber security dashboard in Django for the clients that aggregated logs and events from multiple client machines and provided role-based user presentation.
- Implemented 2-factor authentication and BlokSec, third-party decentralized identity service for passwordless authentication.

Quotey, M&W Insurance, Canada

- Migrating and developing the existing Insurance-Broker portal for the client from .Net framework to React, Redux and NodeJS. Working on Frontend, Middleware and Backend (Mongo DB) for the Admin Portal and Insurer Portal.
- Collaborating with a team in a collective development process to create efficient views and procedures.

Health Care Service, Connex Health, Canada

- Developed a private Health care provider portal with an end-to-end appointment booking portal, chat service between Health providers and Customers, integrated with Stripe payment gateway.
- Remodelled the entire business from static WordPress website to End to End Health care portal including Ad management for the revenue stream. The tech stack included Django, AWS, and PostgreSQL.

AI Chatbot, Canatrace, GroundLevel Insights INC., Canada

- Developed an AI-powered contact tracing chatbot for the business to automate the process of providing COVID-19 regulations, and Provincial guideline updates for business.
- Utilized machine Learning and NLP for development and Docker along with AWS LightSail. The product helped to expedite the customer service process by 17%.

Privacy Impact Assessment, Privacy Compliance Solution, Armour Cyber Security, Canada

- Developed a Web Application for Privacy Impact Assessment in collaboration with Armour cyber-Security and Cat Coode (Data and Privacy Expert).
- Designed back-end programming utilizing SQL Server, Plesk hosting with JavaScript/jQuery, and .Net frameworks for Error logging and Report generation. Developed the WebApp integrated with Stripe payment gateway APIs for paid Assessment packages.

Cyber Risk Assessment, Bryson Insurance, Canada

- Worked on a website for Bryson Insurance that helps clients analyse the Cyber Security Risk Assessment required in their line of work. Tech Stack ASP .Net, Ajax and MS SQL Server
- Contributed to tailoring a specific questionnaire that helps figure out the cyber security loopholes in the client business using NLP and Machine learning with Python. The data collected would be fed to an AI component that factors in the risk involved in the business and recommends an Insurance Package.

Application Developer, Bank Of New York Mellon Technology

2017 - 2019

- Involved in development, work plan proposals, metrics reporting, presentations, tracking and support for various FX Allocation Routers and FX Hub UI.
- Primary contributor in migration task for projects from Harvest to Git and automating deployment via Jenkins.
- Developed and deployed Barracuda Order Management System within the FXH UI, frontend and backend, with resilient coding practices without rollbacks in the production environment.
- Dependable worker, working long shifts as needed, Communicating effectively with various cultures and demographics respectfully and professionally.
- Proficient in .Net, Spring Boot, Java, MSSQL, GIT, Jenkins, Jira, JavaScript, and PowerShell

EDUCATION

Applied Modelling and Quantitative Methods M.Sc., Trent University, Canada

2021 - Present

Artificial Intelligence Analysis, Design, and Implementation, Graduate Certificate, Durham College, Canada

2020 - 2021

- GPA: **4.81**, President's honour roll

Data Analytics for Business Decision Making, Graduate Certificate, Durham College, Canada

2019 - 2020

- GPA: **4.83**, President's honour roll

Bachelor of Technology Computer Science and Engineering, Kalinga Institute of Industrial Technology, India

2013 - 2017

- GPA: **8.93**, Honour roll

TRAINING AND CERTIFICATIONS

- Been a part of and led multiple AI projects using Keras, TensorFlow, and PyTorch as a Research Assistant at Durham College. Multiple projects showcased in <https://github.com/roshandeep>
- Microsoft Certified: Analysing and Visualizing Data with Power BI, Querying Data with Transact-SQL
- Competitive Programmer **Leetcode** and **Hackerrank**
- Udemy Certified in “Python Bootcamp”, Data Science With R”, “Python for Data Science and Machine Learning Bootcamp” and many others.
- Certified Competent Leader, Competent Communicator, Competent Communicator Bronze in Toastmasters International. Invited as a guest speaker on various occasions for delivering talks on Humorous Speaking and Speaking to Make an Impact