ARSHPREET SINGH

365-883-1834
singa322@mcmaster.ca
git/arshpreetsingh3
In/arshpreetsingh3
Portfolio

HIGHLIGHTS OF QUALIFICATION

* Currently enrolled in the Master of Engineering Co-op program in the department of Systems and Technology with specialization in Automation Smart Systems at McMaster University, eligible for a 4–12-month Co-op starting in Sep 2023 with an expected graduation data of Sept 2024.

* Experience with Python, AWS, React JS and Javascript programming with knowledge of complete software development gained through professional experience, course, lab work and projects looking for software development coop opportunities.

EDUCATION

McMaster University
Hamilton, Canada
Master of Engineering, Systems & Technology (Automation Smart System)
Jan 2023 - Present

Manipal University
Rajasthan, India
Bachelor of Technology, Computer Science Engineering (CGPA: 8.35/10)
Jun 2016 - Jul 2020

SKILLS

Program Languages - Python, Java, C, C++, Javascript, Node.js
Technical - AWS, AWS CDK, Git, ReactJS, HTML5, CSS3, SpringMVC, MongoDB, Express Docker, Jenkins, MySQL, CI/CD, DevOps, Linux, Keras, Tensorflow

EXPERIENCE

Engineer, Big Data & AI Data Practice
Sep 2021 - Dec 2022
Nagarro, *Gurugram, India*

Sunovion Pharma (Canada)
* Developed ETL flows and configured suggestions using Verso (internal tool) for content creation of the mobile app
* Transformed data using SQL along with Pyspark and Hive for validation of SQL queries in the pipelines, thus increasing data accuracy by more than 70%

Ultragenic (India)
* Developed infrastructure as code using AWS CDK for automation of AWS Stepfunctions and Aws Lambdas
* Configured code pipelines for the end-to-end deployment of lambdas and step functions using AWS Codepipeline, resulting in automation thus reducing manual effort by more than 80%
* Developed functional flows using AWS Stepfunctions to integrate Lambdas, reducing dev time by 60%

Associate Engineer, Big Data & AI Data Practice
Sep 2020 - Aug 2021
Nagarro, *Gurugram, India*

QModoAi (USA)
* Spearheaded the development and deployment of cloud-based architecture (AWS CDK) leveraging Python
* Deployed Code Pipelines running across different environments on cloud
* Integrated CI/CD for backend resources ensuring maximum up time
* Automated Gluejobs and Stepfunctions cutting down the manual effort by more than 90%
* Contributed to different Proof of Concepts that were used as a direct pitch for future clients.

Technical Trainee   Jan 2020 - Aug 2020
Nagarro, *Gurugram, India*

* Built a full-stack web-based application of Travel Portal with multiple features like ticket booking system and Covid-Tracker for Nagarrians using Java, Javascript, AngularJS and SpringMVC
* Trained on Advanced Java, OOP Concepts, SpringMVC, GoogleMLKit, HTML, CSS, Javascript, NodeJS, Data Structures & Algorithms with 91% score securing a place in the top 5% among 200 new trainees
* Worked on proof of concept-built Text Recognition and Speech-to-text App using Google ML Kit

Intern, Python Team   May 2019 - Jun 2019
Ongraph Technologies, *Noida, India*

* Built a music library system where users could add albums and make a personalized library using Python, Django, HTML, CSS and SQLite

PROJECTS

Youtube Clone   Mar 2023 - Apr 2023
* Developed Youtube application using React JS, Redux Toolkit and Tailwind CSS.
* Developed searchfunctionality implementing caching and debouncing using Youtube Apis.
* Developed features like Livechat and Nested Comments on the watchpage.
* Live at : https://cute-salmiakki-9bcf36.netlify.app

Food Villa App   Mar 2023 - Apr 2023
* Developed Food Villa application using React JS, Redux Toolkit and Tailwind CSS
* Developed application using live Swiggy API data
* Developed features like Search and Cart
* Live at : https://cerulean-semolina-fc7c01.netlify.app

Image Captioning   Jan 2019 - May 2019
* Built a model with 80% accuracy using deep learning & transfer
* Used CNN and RNN to build the model and VGG16 for transfer learning (Python, Jupyter Notebook)

PUBLICATIONS

* Arshpreet Singh, "Data Leakage Protection", International Journal of Special Education, vol. 37, no. 3s, pp. 1135-1148   May 2022
* Arshpreet Singh, " Data Leakage Protection", International Conference on Multidisciplinary Research in Engineering, Science, Management, Humanities and Education, pp 467 – 481   May 2022

ACHIEVEMENTS

* In the top 3 of 16 participating teams, Dell Hack to Hire Hackathon, organized by Dell.   Feb 2019
* Contributed to the team of 4 by building the recommendation engine which was used to recommend products to the users   Dec 2018

CERTIFICATIONS

* Machine Learning by University of Washington   2018
* Data Structures in C++ by Coding Ninjas   2018
* Data Science - Machine Learning by Coding Ninjas   2018
* Machine Learning Bootcamp by Forsk Technologies   2019

EXTRA CURRICULARS

* Drummer, The NA9 HIGHWAY and The Music Club (Manipal University Jaipur)   Jul 2018 – Dec 2022
* Helped the underprivledge kids by teaching them basic computer skills under the Life Skills Education and Employment Project under YouthInvest Foundation   Apr 2017 – Dec 2019
* Member , Organizing Committee, Techideate, Abhivarta and Onerois.   Feb 2016 – Mar 2018