Aakarsh Shekhar

aakarsh.shekhar@mail.mcgill.ca | 514-690-7311

EDUCATION

MCGILL UNIVERSITY
Bachelor of Engineering
Software Engineering
Minor in Technological Entrepreneurship
Montreal, QC
Expected: May 2020

LINKS

Github:// **aakarsh19**
Website: **cs.mcgill.ca/ ashekh1**
LinkedIn:// **aakarshshekhar**

SKILLS

PROGRAMMING
Java • C • C++ • Python
Bash • HTML • CSS
JavaScript • Node.js • Vue.js

LANGUAGES
English • Hindi
French(basic)

COURSES

Applied Machine Learning
Prob. and Statistics for Eng.
Algs. and Data Structures
Model-based Programming

CLUBS

VP Finance - McGill CodeJam
June 2018 – present
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Active Member - McGill Artificial Intelligence Society
September 2018 – present
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VP Finance - McGill TechWeek
September 2017 – May 2018
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VP Finance - McGill Engineering Adventure Committee
September 2017 – May 2018
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President - DPS Aerospace Society
September 2015 – May 2016

WORK EXPERIENCE

NETWORK MANAGEMENT INTERN | Cambium Networks
Summer 2018

- Worked under the technical lead of cnMaestro™ - a cloud-based or on-premises software platform for secure, end-to-end network control
- Responsible for developing and automating documentation of the various wireless network manager RESTful APIs and presenting it efficiently to the clients

PROJECT MANAGEMENT INTERN | ICAO (United Nations)
Summer 2017

- Assisted development in Electronic Air Navigation Plans (eANP) and Reference Center
- Shortened the timeline for the eANP project in half by increasing efficiency- using macros of code to automate deliverables
- Conducted personnel interviews with internal clients, outlined business workflows

FINANCE INTERN |ICAO (United Nations)
Summer 2016

- Responsible for data entry and validation in Accounts Unit, filing transactions in Treasury, using financial tools like Agresso(ERP), Access, Excel

SOFTWARE PROJECTS

VIRCA | ImplementAI, McGill University
The 'Visually Impaired Road Crossing Aid' helps the visually impaired navigate the intersections easily, using the camera on their smartphones. The mobile phone app was built using React-Native and the reinforcement learning model built using Python. The app allowed the user to scan the area and then vocally guided them across the road. Additionally, we also used the Google Maps API and the Clarifai API to move in the correct direction and detect the right indicators for a road crossing.

PSYCHBOT | McHacks, McGill University
PsychBot is a chatbot that helps deal with general psychological problems. Built in Node.js, using Cisco Spark ChatBot API for chat-box, and Nuance Nina Knowledge (NiK) API to analyse text or speech. Additionally, PsychBot was one of the first third-party Cisco Spark chatbot to implement voice functionality, which was built using the Bing Speech API.

LOAN DATA EXPLORATION AND PREDICTION | CodeJam: DataDive
The Loan data exploration plotted the different conditions against each other to find out what really affects interest rates. Additionally, the prediction was based on the best fitting model out of the many we implemented. Built using python and a standard Jupyter and SkLearn workflow, along with a Google compute background.

IDEA WEBSITE | YHacks, Yale University
The Idea Website helps connect young programmers with users who listed their problems, to help fix the problem for prizes. It was built during a 36-hour long hackathon, using Node.Js for back-end, and CSS/HTML for frontend.

WHO | HackPrinceton, Princeton University
A chatting app that initially hides the chatters' personal information, and only allows users to uncover each other's personal information gradually if the other person allows it, after a few minutes of texting. Built using react-native, it uses 'react-native-router-flux' and 'react-native-gifted-chat' to implement the UI, and JavaScript to build the zodiac matches algorithm.