Harshil Modi

harshilmodi08@gmail.com 647-274-5055 web/harshilmodi.com in/modiharshil github/harshilmodi10

SUMMARY

Experience with Python, C/C++, Java, JavaScript, SQL, Dart, Git, React, Node.Js, Linux and Unix.
Interested in distributed systems, infrastructure engineering, data science, and back-end development.

EXPERIENCE

Uber   San Francisco, CA
Incoming Software Engineering Intern   *May 2020 - Aug 2020*
- Joining the Marketplace Engineering team to continue building the core platform for real-time pricing and matching. Tech stack includes Python, Node.Js, Go, Java.

Fortran Traffic Systems   Toronto, ON
Full Stack Developer Intern   *Apr 2019 - Aug 2019*
- Deployed prediction and analysis algorithms under smart traffic initiative to improve traffic flow in Toronto.
- Implemented a web application using Python-Flask and MongoDB for real-time simulation of 50 plus intersections.
- Optimized, refactored, and converted XML files to protocol buffer files leading to a 60% reduction in transfer time.

Languages/Tools: Python, Flask, C++, JavaScript, MongoDB, HTML, CSS, jQuery

Chat Automate (Startup)   Toronto, ON
Software Developer   *Nov 2017 - Apr 2019*
- Designed and deployed company's first voice recognition chatbot resulting in $25,000 a year in revenue.
- Built company website using react which directly increased client base by 60% and sponsorship by 20%.
- Developed databases and stored procedures, reports and data entries to Microsoft SQL Server.

Languages/Tools: Python, SQL, TensorFlow, React

SunnyBrook Hospital   Toronto, ON
Software Engineering Intern - Summer Research Student   *May 2018 - Aug 2018*
- Individually developed software for identifying cancerous cells; Received publication in Biology Open Journal.
- Implemented a cell identification classifier using OpenCV and NLTK with 85% accuracy.
- Automated data analysis and improved processing time by 30%. Scripts still used by the team today.

Languages/Tools: Groovy, Java, OpenCV, NLTK

PROJECTS

Twitter Fake News Tracker   git.io/Jvq6w
- Visually depicted tweet and retweet proliferation across 500,000 twitter users using graphing library iGraph.
- Implemented Hybrid Bellman-Ford-Dijkstra's algorithm to improve run time bound by 17%.

Languages/Tools: Java, Python, MongoDB

Image Recreation with Genetics Algorithm   git.io/Jvq6r
- Developed algorithm to generate identical images from pixels using the genetic algorithm; achieved 87% accuracy.
- Implemented an exponentially decaying adaptive learning rate to decrease average run time by 12%.

Languages/Tools: C, Bash, iGraph

EDUCATION

McMaster University   Hamilton, ON
Bachelor of Engineering in Software and Biomedical; GPA: 3.96/4.0 (11.7/12)   *Sep 2017 - Apr 2022*
- **Courses:** Data Structures & Algorithms, Databases, Software Project Management, Computer Architecture
- **Activities:** AI Society, Competitive Programming Club, Hack the North (University of Waterloo)
- **Awards:** Computer Science Excellence in Problem Solving Award, Motorola Software Engineering Scholarship, Aspiring Engineer Scholarship, McMaster University President's Award, Pollock Family Academic Scholarship