Raquib Lavani

 $587-598-3200 \mid r.raquib<01@gmail.com \mid raquibkhan.com \mid linkedin.com/in/lavani \mid github.com/raquibkhan.com \mid linkedin.com/in/lavani \mid github.com/raquibkhan.com/in/lavani \mid github.com/raquibkhan.com/in/lavani \mid github.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkhan.com/raquibkh$

EDUCATION

University of Alberta

Edmonton, AB

Bachelor of Science in Software Engineering Co-op

Sep. 2019 - May 2024

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Rust, Python, C++, Java, Bash Frameworks: Next. js, React, Node, Flask, Jest, JUnit, Robotium, Selenium

Developer Tools: AWS Fargate, AWS ECS, Docker, Git, Prisma, Figma, Android Studio

EXPERIENCE

Software Developer Co-op

May 2023 – Present

InsideDesk Inc

Toronto, ON

- Leading a project to overhaul 24+ micro-services by migrating to TypeScript, enforcing typing and conventions
- Developing a containerized Node application to scrape information using fuzzy matching and headless Chromium
- Built performant parallellized object iterators for an in-house library increasing performance speed by 27%
- Defined 4+ YAML scripts to enable smooth CI/CD deployment of applications as AWS Fargate Tasks

Undergraduate Teaching Assistant

Sep. 2021 - May 2023

University of Alberta

Edmonton, AB

- Leading seminars for 100+ students to teach logic, induction, probability, number theory and graph theory
- Conducting office hours to support 350+ students in formal systems and logic topics
- Grading and providing feedback for formal systems assignments and examinations

Developer Intern

May 2022 – Aug. 2022

ScotiabankToronto, ON • Developed and automated a multi-tiered compliance tool using VBA saving 35+ hours of weekly manual work

- Devised a Python program to concatenate and format multiple csv files improving upload speed by 90%
- Led the development of the automated OSFI dashboard by using ActiveX and ADO connections in VBA
- Created a tool for Excel to SQL migration employed by entire department improving lookup speed by over 400%

Jan. 2022 – Apr. 2022 Data Science Intern

Scotiabank

Toronto, ON

- Designed an isolation forest fraud detection algorithm using scikit in python improving fraud flagging by 12%
- Analyzed 3 million+ data points using NumPy to compare fraud volume and rate in two different login streams
- Led the automation of a data pipeline using Demisto to push a scalable fraud detection tool to production
- Utilized multi-threading in Python to pull login data from QRadar improving data pull speed by 300%

Projects

NLP Undergraduate Research | Python, Flask, Bash, PyTorch, kenlm

- Benchmarked performance of two machine learning models which identify instances of negative language transfer
- Implemented a recurrent neural network (RNN) using PvTorch and an n-gram language model to train models
- Automated generation of 50+ language models used for k-fold cross validation in kenlm using bash
- Boosted language model loading speed by 40% by converting ARPA files to Binary files

FoodBook | Android Studio, Java, Firebase, JUnit, Robotium, YAML

- Developed a functional android application for meal-planning and grocery shopping
- Implemented the Parcelable interface for inter-activity data transfer increasing transfer speed by 150%
- Devised a muti-threaded comparison algorithm to detect missing ingredients boosting detection speed by 40%
- Wrote unit tests using JUnit increasing test coverage to 90% and automated testing using Github workflows

Inclusify | React, Node.js, SQLite, Javascript, Azure Computer Vision API, Hootsuite API

- Designed a full-stack web application using React to make social media posts inclusive
- Wrote asynchronous functions to coordinate 4 API calls and post on Twitter using the Hootsuite API
- Integrated Azure Computer Vision to caption images and LanguageTool API to check language errors
- Demonstrated app functionality to 1000+ Hack the North participants and won best use of Hootsuite API