

Raquib Lavani

587-598-3200 | r.raquib01@gmail.com | raquibkhan.com | linkedin.com/in/lavani | github.com/raquibk

EDUCATION

University of Alberta

Bachelor of Science in Software Engineering Co-op

Edmonton, AB

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

Miscellaneous: Data Structures and Algorithms, Operating Systems, Android Development

EXPERIENCE

Software Developer Intern

May 2023 – Dec. 2023

InsideDesk Inc

Toronto, ON

- Secured a **\$27,000 contract** by developing four robust web automation micro-services using Puppeteer
- Led the overhaul of **24 micro-services** by migrating to TypeScript and upgrading Docker images
- Boosted performance of an in-house library by implementing in-memory caching for frequently requested resources
- Implemented Bitbucket Pipeline configurations to build and upload Docker images to 4 development environments

Software Engineer Intern

May 2022 – Aug. 2022

Scotiabank

Toronto, 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 an automated 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%**

Data Science Intern

Jan. 2022 – Apr. 2022

Scotiabank

Toronto, ON

- Designed an isolation forest fraud detection algorithm using scikit increasing fraud flagging accuracy by 12%
- Analyzed **3 million+ data points** using NumPy to compare fraud volume and rate in two different login streams
- Automated a data pipeline using Demisto to push a scalable fraud detection tool to production
- **Improved data pull speed by 300%** by utilizing multi-threading in Python to retrieve data from IBM QRadar

PROJECTS

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

- A fully functional android application for meal-planning and grocery shopping
- Devised a comparison algorithm to detect missing ingredients and integrated a Firebase real time database

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

- A Hack the North award-winning full-stack web application aimed to make social media posts inclusive
- Implemented 4 parallel API calls to post on Twitter, caption images, and check for language errors

ProtonNews | *Next.js, Bun.js, FastAPI, Prisma, CockroachDB, Cohere*

- A full-stack news website which uses sentiment analysis and summarizing to exclusively display positive news
- Implemented a responsive front-end using server-side rendering and the interfacing to CockroachDB using Prisma

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

- Research project under Dr. Carrie Demmans Epp lab to identify negative language transfer in translations
- Implemented an n-gram language model and an RNN using syntactic data and ran performance benchmarks

LEADERSHIP EXPERIENCE

Undergraduate Teaching Assistant | *Faculty of Computing Science*

- Led seminars, office hours and grading for two computer courses, supporting 350+ students per semester

Vice President Administration | *Computing Science Club*

- Leading merchandise sales for 1000+ students, planning and execution of a graduation gala for 300+ students

Director of Communications | *Bhangra Dance Club*

- Founding member instrumental in obtaining \$6000 in grants, and organizing Diwali event for 160+ students