

# SRIRAM KARTHIK AKELLA

☎ (825) 461-4747 | ✉ [skakellaswe@gmail.com](mailto:skakellaswe@gmail.com) | 🌐 <http://sriramkarthikakella.com/> | 🌐 [skarthik7](#) | in [Sriram Karthik Akella](#)

## EXPERIENCE

### Teaching Assistant | *University of Alberta*

*May 2024 – Present*

- Conduct weekly lab sessions, facilitating hands-on learning experiences for students in both one-on-one and small group settings
- Collaborate with teaching staff to design and refine course materials

### Software Engineer Intern | *Ericsson*

*Sept 2023 – Apr 2024*

- Developed **Python** scripts to extract and transform data from 500+ radio towers, streamlining the data pipeline for more efficient analysis. Optimized **PostgreSQL** queries, resulting in a 47% improvement in database performance
- Built and maintained web applications using both **Flask** and **FastAPI**, adapting to project requirements. Integrated Ericsson Design System (EDS) components to ensure consistent **UI/UX** across platforms

### Software Engineer Intern | *City of Edmonton*

*Jan 2023 – Aug 2023*

- Developed a **Python**-based network **data processing** tool, enhancing data accuracy by 80%
- Created and implemented 10+ **automation** scripts, reducing manual networking tasks by 40%
- Refined **data manipulation** processes for network configuration files, resulting in a 35% increase in operational efficiency

### Data Science Intern | *Kuwait Oil Company*

*May 2019 – July 2019*

- Created interactive dashboards using **Tableau** that improved decision-making speed by 35% for the management
- Implemented **data cleaning** and **preprocessing** workflows that improved data quality accuracy from 78% to 94%

## PROJECTS & LEADERSHIP

### Qify - "Virtual Clinic" | *Dart, Flutter*

- Collaborated in a team environment during a **hackathon** to develop a telehealth application aimed at enhancing virtual healthcare delivery. I focused on frontend development using Dart and Flutter
- Developed dynamic forms for patient registration and appointment scheduling, improving user engagement and streamlining workflows

### COVID-19 Tracker Application | *React, JavaScript, CSS*

- Developed a responsive and interactive COVID-19 data visualization dashboard using **React** and modern web technologies
- Implemented **RESTful API** integration to fetch real-time COVID-19 statistics from a global health database

### Bank Management System | *Python, SQL*

- Developed a robust, multi-threaded financial transaction processing system with a Python-based CLI, integrating SQL for persistent data storage
- Leveraged asynchronous I/O for improved performance in high-concurrency scenarios

### VP @ Undergraduate Association for Computing Science

- Led an interdisciplinary team of 7 designers & developers to design and implement the association's website using **HTML**, **CSS**, and **JavaScript**, and boosted team productivity by 74% through the optimization of agile processes, including sprint refinement, stand-ups, and workflow optimization

## EDUCATION

### University of Alberta

*Sept 2020 – Apr 2025*

Bachelor of Science, Computer Science

**Relevant Courses:** Data Structures & Algorithms, Databases, Reinforcement Learning, Software Engineering

## SKILLS

### Programming Languages

Python, SQL, C/C++, JavaScript, C#, HTML/CSS, Kotlin, Dart

### Machine Learning

NumPy, Pandas, Scikit Learn, Matplotlib, Jupyter Notebook, Tensorflow, Pytorch

### Technologies & Frameworks

Git, NLP, Tableau, Airflow, Spark, OpenCV, JIRA, Flutter

### Cloud Platforms

AWS, GCP