

SRIRAM KARTHIK AKELLA

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EXPERIENCE

Teaching Assistant | *University of Alberta*

May 2024 – Present

- Facilitated lab sessions and collaborated on course material development for an undergraduate level CS course

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
- Developed a full-stack web application using **React.js**, **Node.js**, and **MongoDB**, optimizing user workflows and achieving a 28% improvement in task completion rates
- Implemented a **Machine Learning** pipeline using **Python (scikit-learn, pandas)** and deployed the model with **Flask** and **Docker**, enabling real-time predictions for business analytics

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%
- 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

FinTrack 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, Docker, OpenCV, JIRA, Flutter

Cloud Platforms

AWS, GCP