

# AKSHAY CHAUDHARI

[achaudh55@gmail.com](mailto:achaudh55@gmail.com) | 605-33 Erskine Ave, Toronto, ON M4P 1Y6 | Open to Relocation  
(+1)647 926 1692 | <https://linkedin.com/in/akshayc725> | <https://github.com/akshayc725>

## WORK EXPERIENCE

---

### Autodesk - UserProfile team (Software Engineer 2)

**Toronto, ON** *April 2025 – Present*

[**Technologies used** – Java, NodeJS, ReactJS, GraphQL, Jenkins, AWS - DynamoDB, Glue, Cloudwatch, ECS]

- Part of the team that manages UserProfile API which receives the highest traffic (~**25k req/min**) across all of Autodesk.
- Successfully migrated **42 Million** user records from Snowflake to DynamoDB with zero downtime using AWS Glue.
- Designed and implemented signed image url functionality to securely store and retrieve user's profile images, replacing legacy unsecured image urls.

### Gradient Ascent AI (Data Scientist)

**Vancouver, BC** *June 2024 – Aug 2024*

[**Technologies used** – NLP, LLMs, LangChain, RAG Agents, Flask, Python, Javascript, Azure, Pandas]

- Built a RAG agent with LangChain to provide accurate, context aware answers by retrieving information from custom documents dataset.

### Amazon – Fire TV (Software Development Engineer)

**Vancouver, BC** *Mar 2023 – Apr 2023*

**Seattle, WA** *Mar 2020 – Mar 2023*

[**Technologies used** – Java, Spring, Android, DynamoDB, EC2, Athena, Kibana]

- Designed and implemented the channel preferences on Fire TV - functionality to customize live feed when searching or using Alexa to tune to a channel on Fire TV which was rolled out to ~**70 Million** Fire TV customers worldwide.
- Onboarded 2 largest PSBs in Germany - **ARD and ZDF** by serving as the Single Threaded Owner, which brought in **3.4 Million and 3.5 Million customers** respectively to the Fire TV Live Experience.
- Independently worked on adding support for significantly cheaper Flexible Fleets EC2 instance types for creating EMR clusters used for running daily Spark jobs across the Fire TV org. **Impact** – Cum. cost reduction of **>60%** for **12** teams.
- Independently created a pipeline workflow to enable the team members to add configurations which is an essential component for new partner onboarding. Reduced the manual work done by the team by **55%**.

### InteractiveX, Inc. – Classavo[EdTech] (Software Developer Intern)

**Buffalo, NY** *May 2019 – Aug 2019*

- Developed Payments component from scratch for Classavo to handle one-time and subscription-based recurring payments using Stripe API. Designed and implemented dynamic and interactive Checkout page using **React JS and Material UI**.

## EDUCATION

---

### **Master of Science, Computer Science, GPA – 3.22/4.0**

*Aug 2018 – Feb 2020*

State University of New York at Buffalo, NY

**Courses:** Intro to Machine Learning, Data Intensive Computing, Algorithms-Analysis and Design, Parallel Algorithms, Data Models and Query Language, Computer Security, Software Engineering Concepts.

### **Bachelor of Technology, Information Technology, GPA - 7.17/10**

*Aug 2013 – May 2017*

Fr. Conceicao Rodrigues College of Engineering, Mumbai, India

**Courses:** Data Structures and Algorithm Analysis, Database Management System, Operating Systems

## TECHNICAL SKILLS

---

**Languages:** Java, Python, R, SQL

**Web Technologies:** React JS, Node JS, Express JS, Django, REST API, Material UI, HTML, CSS, JavaScript

**Tools:** AWS Services, EMR, Spring, Spring Boot, MySQL, DynamoDB, Git, Eclipse, VS code, MS Azure

**AI:** Natural Language Processing, LLMs, RAG, Jupyter Notebook, Pandas, Numpy, LangChain

## ACADEMIC PROJECTS

---

### **Big data Analysis on Sports Data (Python, AWS, Tableau)**

- Collected data related to various sports from sources like Twitter, NY Times and Common Crawl using their APIs. Implemented word count and word co-occurrence using MapReduce.
- Generated word cloud from top occurring words and word co-occurrences for each sport category using chart library in Tableau and Amazon AWS and compared results from different sources for each category.

### **EDA and Visualization of flu data in US (R, R Studio, Jupyter Notebook, R Shiny)**

- Collected tweets using Twitter API on the flu website, processed for the US region using twitterR library and plotted the graphs. Compared the results obtained by these two different sources of data and displayed the results on a Rshiny app.