

Karan Tyagi

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Professional Experience

Software Engineer III

March 2025–Present

INTUIT CREDIT KARMA, Charlotte, NC

- Develop an Easy Apply assistant using LangGraph and Intuit's GenOS to integrate conversational capabilities; architect an AI-driven interface for Credit Karma users to query financial terms, projected to boost application submissions by 17%.
- Integrate 'Approval Odds' functionality into the Easy Apply platform, forecasting a 16% lift in Credit Card and 20% lift in Personal Loan submissions; architect a logic layer to intercept downgraded odds, minimizing user declines and optimizing the end-to-end UX.
- Led front-end development for the 'Lightbox (LB) Everywhere' Credit Card marketplace using React, collaborating with Product/Design and Intuit QuickBooks team to deliver a seamless integration that increased LB impressions by 33% and Click-to-Application (CTA) rates by 14%.

Software Engineer II

June 2023–March 2025

INTUIT CREDIT KARMA, Charlotte, NC

- Directed technical requirements gathering and implementation for banking partners onboarding onto the Easy Apply platform, serving millions of Credit Karma members; collaborated with Product and Design to iterate on features through rigorous A/B testing and performance analysis.
- Led the end-to-end removal of legacy A/B tests, managing cross-team dependencies and executing multiple "fishfood" phases to ensure system stability and zero-regression deployments.

Software Engineering Intern

June 2022–August 2022

INTUIT CREDIT KARMA, Charlotte, NC

- Implemented a job to correctly shard and store more than 100,000 reviews for the Credit Cards using Scala and MySQL.
- Refactored the Bazaarvoice reviews ingestion service, transitioning to a sequential file-processing architecture to eliminate out-of-memory (OOM) errors and ensure job stability during weekly data fetches.

Research Assistant (Machine Learning)

January 2021–May 2021

INDIAN INSTITUTE OF SCIENCE (IISc), Bangalore, India

- Annotated more than 7,000 images using the CVAT (Computer Vision Annotation Tool) for lane detection on Indian roads under Dr. Pradipta Biswas.
- Coordinated in building a deep convolutional neural network architecture for the labeled data. Training Dataset: IDD (Indian Driving Dataset) Benchmarking Datasets: TuSimple, CULane.

Education

Master of Science in Software Engineering (Concentration: Data Science)

May 2023

GPA: 3.85/4.0 | SAN JOSE STATE UNIVERSITY (SJSU), San Jose, CA, USA

Bachelor of Technology in Computer Science Engineering

May 2020

CGPA: 8.1/10 | MANIPAL UNIVERSITY, Jaipur, Rajasthan, India

Technical Skills

Programming Languages: Python, Typescript, SQL, HTML, CSS, Scala

Frameworks & Libraries: LangGraph, React, Node.js, GraphQL, NumPy, Pandas, Flask, Django, Next.js, Playwright

Environment & Tools: Git, Docker, Kubernetes, AWS, Jira