Karan Tyagi

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Professional Experience

Software Engineer III *March 2025–Present*
INTUIT CREDIT KARMA, Charlotte, NC

- Led front-end development for the 'Lightbox (LB) Everywhere' Credit Card marketplace, collaborating with Credit Karma Product/Design and Intuit QuickBooks teams to deliver a seamless integration that increased LB impressions by 33% and Click-to-Application (CTA) rates by 14%.
- Integrating 'Approval Odds' functionality into the Easy Apply platform to drive a forecasted 16% increase in Credit Card and 20% increase in Personal Loan application submissions; architecting a logic layer to intercept downgraded odds, reducing user declines and optimizing the end-to-end UX.
- Developing a Generative AI Proof of Concept (POC) using LangGraph to integrate conversational capabilities into the Easy Apply platform; architecting an AI-driven interface for Credit Karma users to query financial product terms, projected to boost application submissions by 17%.

Software Engineer II *June 2023–March 2025*
INTUIT CREDIT KARMA, Charlotte, NC

- Directed technical requirements gathering and implementation for banking partner onboarding onto the Easy Apply platform; 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 fetch and store reviews implementation for a weekly job. Updated the implementation to fetch and store one file at a time from a third-party vendor, hence, avoiding out-of-memory errors.

Research Assistant (Machine Learning) *June 2022–August 2022*
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

Frameworks & Libraries: LangGraph, React, Node.js, GraphQL, TensorFlow, NumPy, Keras

Environment & Tools: Git, Docker, Kubernetes