

# Dhruv Adha

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## EDUCATION

### Georgia Institute of Technology

December 2024

*BS in Computer Science—Machine Learning & Modeling/Simulation*

*Atlanta, GA*

- Relevant Courses: Deep Learning, Natural Language Processing, High Performance Computing, Computer Organization and Systems, Data Structures and Algorithms, Objects and Software Design

## EXPERIENCE

### Goldman Sachs

June 2024 – August 2024

*Software Engineering Analyst*

*Dallas, TX*

- Automated the applied margin calculation process for syndicated loans within Investment Banking Engineering.
- Designed a domain specific language with ANTLR4 for parsing and communicating 100+ credit agreements.
- Developed an end-to-end application for the GS Digital Loan Agent using TypeScript, React, and Next.js.
- Led collaboration with the Investment Banking Operations team to design the loans pricing grid with Figma.

### John Deere

November 2023 - May 2024

*Machine Learning Engineer*

*Atlanta, GA*

- Built a scalable data pipeline architecture leveraging AWS CloudFormation, SNS queues, and S3 buckets.
- Developed REST APIs to provide analytics insights for data science teams using Java and Python.
- Enhanced customer request management using Databricks and distributed computing.
- Led testing efforts for MLOps products, creating and executing 200+ unit tests with Pytest-mock.

### UKG

May 2023 - August 2023

*Software Engineering Intern*

*Atlanta, GA*

- Streamlined data-streaming applications for workforce management using Kotlin and Spring Boot.
- Optimized Apache Kafka event consumption, reducing the Data Store team's storage requirements by 45%.
- Managed production deployments using Kubernetes for orchestration and Docker for containerization.
- Developed 50+ test cases for the job history application using TestRails and Kotlin after reaching out to clients.
- Streamlined error identification by writing Kibana log search aggregations for internal developer use.

## PROJECTS

### Emory AI Precision Lab

January 2023 - May 2024

- Developed a 3D ResNet deep learning model to classify kidney tumor grades using CT scans.
- Utilized Georgia Tech's PACE cluster and CUDA to train and deploy models across multiple GPU clusters.
- Implemented image segmentation on prostate cancer CT scans using OpenCV and Canny edge detection.
- Researched Docker containerization for medical imaging applications in collaboration with Emory professors.

### SubjECTive-QA

August 2023 - Present

- Published paper to NeurIPS and presented findings at the SouthNLP 2024 Symposium.
- Constructed SubjECTive-QA: a novel dataset of earnings call transcripts for training LLMs in financial analysis.
- Trained NLP models such as BERT, FinBERT, and RoBERTa using our custom database.

### ShelfSurf

May 2024 - Present

- Developing an app to scan a bookshelf and provide personalized book recommendations using Python and React.

## TECHNICAL SKILLS

**Languages:** Java, Python, Kotlin, C/C++, SQL, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Node.js, Next.js, Spring Boot, JUnit, PyTest, FastAPI

**Tools:** Docker, Kubernetes, AWS CloudFormation, CUDA, RestAPIs, MongoDB

**Libraries:** Pandas, NumPy, Matplotlib, PyTorch

**Certifications:** AWS Cloud Practitioner