

EDUCATION

Georgia Tech

- *Master of Science - Computer Science*
GPA: 4.0

Online & Atlanta
August 2022 - Present

Courses: Graduate Introduction to Operating Systems (A), Machine Learning for Trading (A), Deep Learning (A)

Birla Institute of Technology and Sciences (BITS-Pilani)

- *Bachelor of Engineering - Computer Science*
GPA: 8.40

Pilani, India
August 2014 - July 2018

Courses: Data Structures And Algorithms, Machine Learning, Computer Networking, Database Systems

RESEARCH

- **Transfer learning from 3-D Human pose estimation to 3-D human pose forecasting** Georgia Tech
Deep Learning CS 7643 July 2023 - Present
 - Experimenting with **pre-trained models, domain adaptation and architectural changes** to transfer learning from the task of **3-D human pose estimation** to the task of **3-D human pose forecasting**
- **AI Video Compression** Georgia Tech
Create X - Idea 2 Prototype August 2023 - Present
 - Experimenting with ideas related to **AI video compression**, storage and distribution to reduce the costs of video streaming
- **Exploring LLMs for Google Ads use cases** Deepmind & Google Ads
20% project February 2023 - March 2023
 - Worked with a Deepmind and Google Ads collaborative 20% project to apply **Large Language Models such as MUM** for Google Ads use cases
 - Setup the pipeline to train and experiment with **masked Ads data inspired from BERT**

EXPERIENCE

- **Entertainment Intelligence Lab** Atlanta, USA
Researcher August 2023 - Present
 - Research independent thinking agents, working at the intersection of language models and reinforcement learning.
- **Google** Bangalore, India
Software Engineer III May 2022 - August 2023
 - Contributed to a new OLAP engine to optimise analytics operations for Google Ads
 - Designed and implemented multiple features like Dimension Filters and Query Parameters for the new OLAP language
 - Deployed the system with the best engineering practices to serve a QPS of **100k requests/sec** and provide **99.99% availability**
 - Developed expertise in low-level C++ optimization and compiler development
- **Zendrive (Startup)** Bangalore, India
Software Development Engineer III June 2021 - April 2022
 - Developed the **backend from scratch** for a customizable app to track driving analytics, provide real-time leaderboard statistics, and robust collision detection and notification systems
 - Designed a **multi-tenant architecture** to customize the app for independent auto insurance customers, providing database isolation and customer-specific customization, supported via a single backend deployment
- **Directi** Mumbai, India
Software Development Engineer August 2018 - June 2021
 - Developed a **Data Management Platform (DMP)** to display targeted ads to visitors based on behavioral data such as searched and clicked keywords
 - Leveraged big data technologies like Apache Spark to scale the system and process **30 Million events** daily for **100 Million monthly active users**

- Built a targeting system to automatically identify relevant ads to present to users based on behavioral data collected by the DMP using Universal Sentence Encoder and Word2Vec embeddings
- This system improved the **click-through rates by 37%** of specific ad categories such as auto insurance and stock trading

TECHNICAL SKILLS

- **Languages:** Java, C++, Python, Go
- **Frameworks:** Django, JSP servlets, Google Internal Frameworks
- **Backend:** AWS ElasticBeanstalk, Redis, Apache Spark, Aerospike, Apache Kafka, RabbitMQ, PostgreSQL, MySQL
- **AI:** Pytorch, JAX, XManager, Tensorflow, TFX, T5X, SeqIO, Large Language Models

VOLUNTEER EXPERIENCE

- **Founding Member, ML Paper Review Meet:** Started a Special Interest Group to discuss latest research papers of interest in the AI community.
- **President, GaTech Public Speaking club:** Presiding over the GaTech Public speaking club to help students become more confident speakers
- **Ex-President, Google India Toastmasters Club: Co-founded Google India's Toastmasters Chapter** to help individuals achieve their goals for public speaking and **helped grow the club to 45 members**
- **Mentor, Mentor Together:** Provide academic and career mentorship to underprivileged students pursuing Computer Science as their undergraduate major