

Shikhar Agnihotri

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Education

CARNEGIE MELLON UNIVERSITY

M.S. IN IIS, SCHOOL OF COMPUTER SCIENCE, (3.93/4.00)

• Coursework:

Fall '23 Search Engines (11-642) Large Language Models (11-667)
Spring '23 Cloud Computing (15-619) Probability & Computing (15-659) Multimodal ML(11-777)
Fall '22 Intro to Machine Learning (10-601) Intro to Deep Learning (11-785) Advanced NLP(11-711)

- Capstone project & Independent study under Prof. Bhiksha Raj: Using Deep Learning models for denoising speech.
- Graduate **Teaching Assistant**: 11-785 (Spring '23 & Fall '23), CMU's flagship course for Deep Learning.

Pittsburgh, PA, USA

Aug. 2022 - Dec. 2023

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY

B.E. IN COMPUTER ENGINEERING, (8.52/10.00)

Delhi, India

Aug. 2016 - Aug. 2020

Work Experience

SALESFORCE (FTE)

SOFTWARE DEVELOPER (MEMBER OF TECHNICAL STAFF)

- Fullstack Engineer at Team MobilePush.
- Tech : C#, .NET, Node.Js, SQL, Backbone.js.

Bellevue, Washington, USA

Jan 2024 -

SALESFORCE (INTERN)

SOFTWARE ENGINEER INTERN

- Fullstack Engineering Intern at Team MobilePush. MobilePush helps send **targeted and personalized Push notifications**.
- Developed a diagnostic tool empowering marketers with **self-served push debugging capabilities**.
- The tool led to a **significant UX improvement, reducing steps** required for a test push **from >20 to <4**.
- Tech : C#, .NET, Node.Js, SQL, Backbone.js. By **Jun'23 YTD**, MobilePush **processed 148B+ push** notifications for users.

San Francisco, California, USA

May 2023 - Aug 2023

THE D.E. SHAW GROUP (FULL TIME)

SOFTWARE DEVELOPER (MEMBER OF TECHNICAL STAFF)

- Backend Engineer at Batch. Batch is a next-gen job scheduling and highly configurable **workflow automation software**.
- Developed the auto-retry mechanism **that re-ran 60% of failed jobs to success** without manual intervention.
- Tech : Python Framework, Unix. Batch **runs 350K+ jobs on a daily basis**.

Hyderabad, India

May 2022 - Aug 2022

WALMART GLOBAL TECH (FULL TIME)

SOFTWARE DEVELOPER II

- Backend Engineer at QuickPick. The team single-handedly accounts for more than **\$8B-\$10B annual revenue**.
- Developed RESTful APIs for **distributed systems and Azure micro-services** handling complete order fulfillment process.
- Mentored a team of interns to develop a **NLP based** Chatbot for Support Day activities, **cuts 70% of manual tasks**.
- Tech : Java Spring Boot Framework, SQL, RDBMS, and the **azure Microsoft cloud infrastructure** - NoSql, Service Bus, Cosmos.

Bengaluru, India

Aug. 2020 - Apr. 2022

Projects

CELLULAR NETWORK SPEECH ENHANCEMENT

DEEP LEARNING, PYTORCH, PYTHON, AWS

- Our work focuses on the Google Meet To Phone Track of the **VoIP DNS Challenge** and achieves state-of-the-art performance. [Link](#)
- We beat industrial performance, achieve 1.92 PESQ and 0.88 STOI, and a superior acoustic fidelity, perceptual quality, and intelligibility.

Speech Enhancement over VOIP

December 2023

GOOGLE MEET CLASSIC IMPERSONATOR

TENSORFLOW, JAVASCRIPT, SVGS

- This **Chrome Extension** replaces your live video with animated characters in meets video call using **client-side tensorflow lite**.
- Touched **220K+ installs and 27K+ daily active** users, **generated 20M+ impressions** and earned **\$2000+ in ad revenues**.

Chrome Extension for Google Meet

July 2020

Skills

Back-end Springboot, .NET, Node.Js, Pytorch **DevOps** Azure Devops, AWS, GCP, Git, Github, Kafka, Jenkins, CI/CD pipelines
Front-end React, HTML, CSS, LESS, SASS for UX **Languages** Python, Java, C#, C++, JavaScript, SQL, NoSQL, RDBMS