

# DEEPANSHU SHARMA

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## EDUCATION

**University of Texas, Dallas** MS in Computer Science: **GPA: 3.72 / 4** Aug 19 - May 21  
Artificial Intelligence, Machine Learning, Natural Language Processing, Computer Vision

**VIT Vellore, India** Bachelor of Technology in CS: **GPA: 8.46 / 10** Aug 14 - May 18  
Database Design, Algorithm Design, Data structures, OS, Agent-Based Intelligent Systems

## TECHNICAL SKILLS

**Languages:** C++, Python, C#, Java, PHP, Hack, JavaScript, SQL, JSON, HTML, CSS  
**Libraries:** Selenium, SciKit, Pandas, Tkinter, OpenCV, Bootstrap  
**Misc:** Git, AJAX, Node.JS, Android, LAMP, WordPress, NewRelic

## WORK EXPERIENCE

**Software Developer, Meta Platforms Inc., US** Apr 2022 – Jan 2023

- Delivered performant and efficient videos with up to 15-20% higher playback metrics (watch time etc.) using video SceneInfo metadata for the video infra service for Facebook, Instagram etc.
- Rolled out support for alternate audio formats (5.1 channel etc.) for premium content including Premium music videos, Oculus content, Movie studio uploads etc.
- Identified and resolved system abuse and bugs where non video files were being uploaded by content farms and dipping reliability numbers to 95% while costing compute resources and adding to on call burden.
- Delivered encoding configs for VP9 codec to for higher efficiency video streaming on DASH.

**Software Developer 2, Citrix Systems Inc., US** Jun 2021 – Dec 2021

- Implemented modules for Citrix Cloud backend services & tools, with CI/CD methodology, including in-house tool - Inquisitor, for management of monitoring & cloud services: NewRelic, Splunk, Azure Analytics etc.
- Delivered new features, security fixes in monitoring, observability & API services in fast-paced environment.
- Discovered, fixed bugs - e.g., unnoticed downtime –ensuring 99.995% uptime SLA of cloud systems.

**Software Engineer, Mercedes Benz Research & Development, India** Aug 2018 - Jun 2019

- Promoted in 6 months of joining. Recruited and led team for new project, worked directly with HQ in Germany.
- Delivered 17x increase in performance by developing a new software for campaign monitoring and report generation. Reducing 94% of daily time consumption over previous system.
- Researched in data Analytics, “Big Car Data” project utilizing real-time car data for product development.

## PROJECTS

**Stock Trading Web App:** PHP, MySQL, HTML5, Bootstrap Fall 2019

- Developed SOA based 3-tier responsive stock trading web app, including relevant APIs & web services to connect to 3<sup>rd</sup> party REST API. Features: Trading, Scheduling, Queue, Memcache, SSL

**Factory Layout designer, Mercedes-Benz:** Python, Tkinter, Scikit Spring 2019

- Achieved tremendous cost savings, through 70% reduction in licensing needs. Realised by developing a factory floor designing software, as a substitute for a *Dassault Systemes* software
- It helped create factory layouts and simulate production process by mapping robots, workers, accessories, and procedures involved in development, saving up to 5 weeks of manual efforts

**Reverse Image Search App:** Android Summer 2020

- Built an android app. Simplifies reverse image search to a 2-step process, using Google APIs, utilizing image share feature as well as text-based search using android text highlight popup menu

**Connected Vehicle: Driver Assistance and Safety Module:** Python, OpenCV, LAMP Spring 2019

- Developed module to detect objects/people in front of a car, provide haptic feedback to driver if critical.
- It also detected accidents, sent alert to contacts with GPS location, incident footage & live stream link.

**URL Shortener:** LAMP stack, HTML5, Bootstrap Fall 2017

- Implemented web service for URL shortening with custom URLs, click tracking, user auth etc.

## ACTIVITIES & ACHIEVEMENT

- Teaching Assistant:** Software Engineering, CS - 3354, University of Texas at Dallas
- Certifications:** Scrum, Android Dev, Git training, Azure, Security Certifications
- Robin Hood Army, facilitated logistics to help with food drives serving thousands
- Intl. Cyber Olympiad (State rank 1, Asia #40) | National English Olympiad (State rank 2, India #60)