

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, Columbus Tech, US Apr 2023 – Present

- Delivered backend service with 23% faster load times viz. a discussion platform for users and moderators.
- Created moderation dashboard for the above platform, with deep controls, mass actions, user moderation etc.

Software Developer, Meta, 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, 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.
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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 3rd party REST API. Features: Trading, Scheduling, Queue, Memcache, SSL

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

- Achieved Millions in cost savings through 70% reduction in licensing needs with in-house solution.
- Built software to simulate production, map robots, accessories to floor. Saved 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 crashes, 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.
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ACTIVITIES & ACHIEVEMENT

- **Teaching Assistant:** Software Engineering, CS - 3354, University of Texas at Dallas
- **Certifications:** Scrum, Android, Git, Azure, Security, Intl. Cyber Olympiad (State rank 1, Asia #40)