

Rahil Mehta

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EDUCATION

Oregon State University, *Corvallis, OR*
Master of Engineering. in **Computer Science**

Sept 2023 - May 2025

University of Mumbai, Universal College of Engineering, *Mumbai, India*
Bachelor of Engineering in **Information Technology**

May 2018 - May 2022
CGPA: **8.37/10**

WORK EXPERIENCE

Software Engineer, Nerve Solutions, *Mumbai*

Feb 2023 - July 2023

- Led the design and implementation of a high-performance user **alert engine in .NET** that can handle up to **250,000 alerts per second** alert checking, using a scalable and efficient algorithm that takes into account user preferences, alert priority, and system load.
- **Reduced client infrastructure costs by 33%** by optimizing the alert system to run on two servers instead of three. This was achieved by developing a new algorithm for triggering and delivering alerts that is more efficient in terms of both CPU and memory usage.
- Collaborated with the lead engineer to design and implement a new algorithm for triggering and delivering alerts in the user alert system, **resulting in a 25% reduction in alert processing time**.
- Enhanced the scalability and reliability of the alert system by implementing load balancing and logging logic, as well as automatic failover from primary to secondary servers.
- Led the development of a continuous backup utility that saves recent data to **CSV and MongoDB**, enabling failover to secondary servers and providing double data availability.
- Proactively developed a monitoring tool that proactively alerts admins to potential problems on **Slack and via email**, reducing the time it takes to **identify and resolve problems by 50%**.

Programmer, Acty System India, *Mumbai*

June 2022 - Nov 2022

- **Built a console application** to filter text file contents based on generated commands in an **XML file**.
 - Created a **Windows application** that automatically reads XML files from a selected location and draws **flicker-free 2D graphs** that could be manipulated in real-time. The application allowed users to customize graph features such as slopes, start and end points, grid view, axis spacing, graph range, and tooltips. Double buffering graphics and no external libraries were used to create the flicker-free and interactive graph
 - Collaborated with a team of engineers to design and implement the front-end and back-end logic for the login page, password reset page, and CRUD operations for a web application's admin and user personal detail pages, using the **MVC pattern, MSSQL database, and Entity Framework**.
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PERSONAL PROJECTS

Assistive Vision - Final year Project

- Mobile app for visually impaired people with Image Captioning, **Cloth Detection (90% accuracy)**, and **Indian Currency Calculator (85% accuracy)**. Runs on device **without internet**, size **110 Mb**.

Tapman

- Developed Windows app to monitor system usage and enable/disable low power mode to reduce power consumption on battery or while charging
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SKILLS

Technical Skills: C#, Python, Javascript, MSSQL, MongoDB, HTML, CSS, Tensorflow, Pandas, Numpy, OpenCV,

Extra-Curricular : **NSS Volunteer** (*National Service Scheme*) 2020-2021, **Technical Member of ITSA committee** (organizing technical events like hackathons) 2019-2022