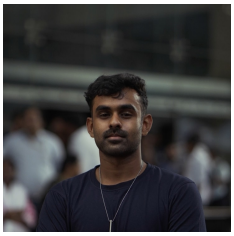
# Shresht V G



Bengaluru, Karnataka | shreshtvg@gmail.com | +91 8861158337

linkedin.com/in/shresht-vg-506465241 | github.com/Shreshtvg

## Education

**PES UNIVERSITY**, B.Tech in Computer Science — Nov 2021 - May 2025

- GPA: 7.6

## Skills

**Languages :** Python, Javascript
**Web Frameworks :** Reactjs, Flask, Nodejs, Expressjs, FastAPI
**Databases :** MySQL, MongoDB
**Microservices Tech :** Docker

## Experience and Internship

**Software Engineer Intern**, WeCP(WeCreateProblems) -Bengaluru — June 2024 - Aug 2024

- Oversaw a team responsible for setting up product details to facilitate platform launch and marketing on AppSumo, increasing accessibility of the product by 10%.
- Developed a service integration with MS Teams with an interactive UI that allowed users to input webhook URLs. Notifications regarding candidate interview analysis were successfully delivered through the service.

**Project Intern**, CCBD CDSAML Center PES UNIVERSITY — Feb 2025 - May 2025

- Developed an AI-powered trailer generation system that automatically creates trailers from full-length movies by extracting high-impact clips based on emotion and genre analysis.
- Implemented multi-modal emotion and genre classification using synchronized analysis of audio features, video frames, and speech-to-text transcripts to select the most expressive segments.

## Projects

**Hospital FrontDesk System - Full Stack Project**

- Developed a Fast-API-based Clinic Management System with JWT authentication role-based access control, allowing front desk users to manage appointments, patient queues, and doctor records.
- Experimented with RESTful APIs, doctor registration, automatic credential generation and real-time patient queue management with secure password hashing.
- Integrated email notifications for doctor credentials and for authentication, ensuring scalability and security for efficient clinic operations.

**Scheduling Strategy for Complex Workloads on Cloud Infrastructure with Docker**

- Simulated a scheduling architecture processing 10,000+ tasks, optimizing execution for large-scale workloads with inter-task dependencies.
- Reduced job completion time by 19.88% and inconsistencies by 76.36% through the application of topological sorting, on a cluster of 20 Virtual Machines using Proxmox VE and Docker

**ClearScan - Scanner for Extraction of Personal, Health, and Finance details**

- A full-stack web application was developed to enable file uploads, data extraction, with extracted information stored in an SQLite database for efficient querying and file management.
- API endpoints were implemented using Express for file uploads, record retrieval, and deletion, with a React-based frontend designed to display uploaded files alongside analyzed data.

## Research Publicatons

**Fedsort: An Optimized Federated Scheduling Strategy for Cloud Workloads with Inter-task Dependencies -** Accepted at the 28th edition of JSSPP 2025, which is being held as a part of the **39th IEEE International Parallel and Distributed Processing Symposium (IPDPS 2025)**

## Additional Experience And Awards

**Badminton University Team:** Victories were secured in tournaments across several colleges.

**Film Maker:**Filmed a short movie was during college, showcasing creativity and storytelling abilities.