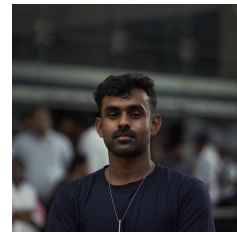# Shresht V G

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Education

PES UNIVERSITY, B.Tech in Computer Science   Nov 2021 - May 2025
- GPA: 7.6

Skills

Languages : Python, C/C++, Javascript
Web Frameworks : Reactjs, Flask, Nodejs, Expressjs, FastAPI
Databases and Microservices: MySQL, MongoDB, Docker

Research Publicatons

'Fedsort' Research Paper Published in IEEE, Italy
- Research Paper Titled - **'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 at **Italy** as a part of the 39th IEEE International Parallel and Distributed Processing Symposium (IPDPS 2025)

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.

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.