

SRIVATSAN M.K.

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Professional Summary

IT professional with hands-on experience in full-stack web and mobile development across diverse platforms. Built backend systems with Python and MySQL to streamline data operations and maximize performance. Improved SQL query efficiency by 70%, significantly reducing latency and load times. Developed scalable infrastructures and automated workflows using PHP, JavaScript, Flask, and cloud tools including AWS, Firebase, and Oracle Cloud.

Technical Skills

Languages: PHP, Python, JavaScript, HTML/CSS

Frameworks: React.js, Node.js, Flask, Bootstrap, jQuery, Flutter

Database: MySQL, MongoDB

Tools: Git, RESTful APIs, Postman, JIRA

Cloud: AWS EC2, S3, Oracle Cloud, Firebase

Professional Experience (Intern)

Infidata Technologies

Apr 2024 – May 2024

Web Developer

Bangalore, Karnataka

- Engineered a PHP/MySQL web app automating class scheduling for 5 institutions, slashing manual time from 10 to 1 hour weekly.
- Designed a Bootstrap/JavaScript admin interface that decreased data entry time from 25 to 15 minutes per task.
- Restructured database queries cutting page load times from 3.6s to 1.8s and reducing server load by 35%.
- Authored comprehensive documentation enabling new team members to master codebase in 2 days instead of 5.
- Revamped scheduling system API using gRPC, improving processing speed 5x and enabling real-time updates across platforms while becoming the subject matter expert.

Projects

Traffic Accident Detection | Computer Vision & ML | Report

2025

- Constructed an OpenCV/TensorFlow detection system achieving 95% accuracy across 1000 test videos in varied lighting.
- Programmed a Flask dashboard visualizing incidents within 20ms and dispatching immediate alerts to emergency services.
- Streamlined processing architecture to manage 25 concurrent video feeds on a single server.
- Accelerated incident notification time from 7.5 to 3 seconds for faster emergency response.
- Validated system performance maintaining 90%+ detection accuracy across 15 different traffic scenarios.

Teacher Subject Allocation | Backend Development | Report

2024

- Crafted a Python/MySQL tool assigning teaching loads for 30 departments based on qualifications.
- Transformed scheduling process, generating conflict-free timetables in 5 minutes vs. 2 hours manually.
- Minimized scheduling conflicts from average 45 per semester to fewer than 5.
- Developed dashboard visualizing teaching data, reducing scheduling conflicts by 40% and resource allocation time by 25%.
- Implemented workload balancing algorithms ensuring no department exceeded 110% of target teaching hours.

College Map Navigation | Mobile App Development | Report

2023

- Launched a Flutter/Google Maps campus navigation app serving 5,000 users.
- Engineered offline map functionality, reducing data usage by 85% and enabling navigation without internet access.
- Revamped UI through 30 iterations based on 150 user surveys, elevating ratings from 3.2 to 4.8/5.
- Cataloged 40 campus POIs with custom icons and information cards for key locations.
- Formulated routing algorithms decreasing average navigation time from 5 to 3 minutes.

Education

Sri Krishna Arts and Science College

Bachelor of Science in Computer Technology

Aug 2022 – May 2025

Coimbatore, Tamil Nadu

Certifications

- Computer Forensics (Coursera - INFOSEC)
- Introduction of Data Science (Coursera - IBM)
- MySQL Basics (Great Learning)
- Python 3.4.3 (IIT Bombay)
- C Programming (IIT Bombay)
- Java Development on Oracle Cloud (Oracle)
- Machine Learning on Oracle Cloud (Oracle)
- Build AI apps with Microsoft Azure services (Microsoft)
- Prepare for the next generation of data analytics with Microsoft Fabric (Microsoft)