

Adepu Vaatsava Sri Bhargav

Cloud & DevOps Engineer | Full-Stack Developer | GSoC 2025 @ VideoLAN

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Professional Summary

Computer Science graduate (B.Tech, 2026) with hands-on experience building, testing, and deploying full-stack and cloud-integrated applications using AWS, Docker, CI/CD, and PostgreSQL. Google Summer of Code 2025 contributor at VideoLAN, built an AI-powered recommendation engine in C/C++ within a large-scale open-source codebase. Comfortable across the SDLC/STLC from manual and API testing (Postman) to unit testing and deployment with a track record of shipping production-style projects independently and in teams across 3 national-level hackathons. Seeking a Software Testing, Cloud/DevOps, or Software Engineering role to apply strong fundamentals in testing, automation, and full-stack development.

Education

CMR College of Engineering & Technology <i>B.Tech, Computer Science & Engineering</i>	2022 – 2026 <i>CPI: 7.53</i>
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Experience

Google Summer of Code 2025 Contributor <i>VideoLAN Organization (Open Source) – Remote</i>	May 2025 – Sept 2025
- Selected as 1 of a small cohort of global contributors for "AI-Powered Media Recommendation Engine for VLC", working within VLC's C/C++ and Qt/QML codebase. - Designed and integrated a machine-learning-based recommendation module into VLC Media Player to personalize content suggestions from user playback behavior. - Collaborated asynchronously with a distributed mentor team via Git-based code review, adhering to open-source contribution standards and CI checks.	

Projects

PharmaCare <i>React, Spring Boot, PostgreSQL, Redis</i> GitHub	Feb 2024
- Built a medicine-inventory and expiry-tracking web app used across 5+ pharmacies, cutting stock wastage by 30%. - Designed a real-time monitoring dashboard and tuned PostgreSQL queries for a 50% gain in retrieval performance. - Delivered a mobile-first UI achieving a 95% Lighthouse performance score.	
Communitifx <i>React, Spring Boot, PostgreSQL, Docker</i> GitHub	Apr 2024
- Built a community issue-reporting platform with geospatial, color-coded issue tracking, processing 1,000+ user-submitted reports. - Integrated a support chatbot that cut average response time by 40%. - Containerized the app with Docker for consistent deployments and 99.9% uptime.	
VaultLock <i>Flutter, SQLite, AES-256-GCM</i> GitHub	Dec 2025
- Developed a zero-knowledge offline password manager using AES-256-GCM encryption with PBKDF2-SHA256 key derivation (10,000 iterations), storing all data locally. - Added biometric authentication (Face ID / Fingerprint) and a password-security audit system with real-time strength scoring; manually tested encryption edge cases and auth flows across devices.	
AquaSafe <i>Flutter, Flask, XGBoost, LightGBM, PostgreSQL</i> Hugging Face	Jan 2026
- Built a full-stack mobile health platform predicting 7 waterborne diseases and water-quality/outbreak risk from a 5.25M-record synthetic dataset calibrated to Indian epidemiological data. - Trained a gradient-boosted ensemble (XGBoost + LightGBM) achieving 95.19% disease-classification accuracy and 0.9997 AUC-ROC for outbreak risk. - Served 5 ML models via a Flask REST API with JWT authentication, consumed by a 19-screen Flutter mobile app.	

Technical Skills

Cloud & DevOps: AWS, Oracle Cloud, Docker, Git, CI/CD (GitHub Actions, Jenkins)
Programming Languages: Python, Java, C/C++, SQL
Web Development: React, Next.js, Vue 3, Node.js, Spring Boot, REST APIs
Databases: MySQL, PostgreSQL, MongoDB, Redis, Firebase, Supabase
Testing & QA: Manual Testing, API Testing (Postman), Unit Testing (JUnit), SDLC/STLC, Bug Tracking, Test Case Design
Tools & Practices: Linux, Agile/Scrum, System Design, Version Control (Git)

Achievements

Secured 2nd Runner-Up in HackByte: National-Level Hackathon at Vellore Institute of Technology, Andhra Pradesh.	Oct 2024
Received an Honorable Mention for SDG 11: Sustainable Cities and Communities, organized by IIT Hyderabad	Oct 2024
Achieved Finalist position in Specathon 2024, a 36-hour national-level hackathon at St. Peter's Engineering College.	Sept 2024