Surya Sriram Duvvuri

SOFTWARE DEVELOPER

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[LinkedIn](#) [Portfolio Website](#)

Objective

Software Developer specializing in React Native and Java-based backends, delivering secure mobile features, scalable APIs, and clean UI/UX. Experienced with Supabase, Git, and Agile. Interested in building high-quality mobile products end-to-end.

Skills

- **Languages:** Java, Python, JavaScript
- **Frameworks & Tools:** React Native, Android, PostgreSQL, Supabase, Git
- **Concepts:** OOP, DSA, DBMS, Agile/Scrum

Experience

Developer Intern | Prizlyn Technologies Pvt Ltd   23 Dec 2024 – Current

- Contributed to a Ph.D. Student and Guide Management System, enhancing academic workflow management.
- Designed and implemented features including user authentication, progress tracking modules, and dashboard interfaces.
- Improved performance and usability by applying modular design principles and user feedback loops.
- Practiced Agile development and collaborated with senior engineers for iterative release cycles.

Student Project Intern | Intel   20 Jan 2025 – 13 Mar 2025

- Contributed to the development of a "School Student Companion" application, designed for both PC and cloud-based SaaS deployment.
- Designed and developed the front-end of the application, creating a user-friendly interface for students to access and interact with NCERT textbook content.
- Engineered a key feature of the application: a PDF viewer with a built-in highlighting tool, enabling students to mark and save important sections of their digital textbooks.
- Collaborated with the project team on a multifunctional educational platform intended to include features like AI-powered Q&A, automated note generation, content translation, and audio playback.

Other Micro-Internship Programs:

Android App Development | Academor   1 Jul 2024 – 31 Aug 2024

- Built an Android voting app with Firebase Authentication and real-time database support.
- Ensured data integrity and secure role-based access.

Java Developer | CodSoft   1 Nov 2023 – 30 Nov 2023

- Developed Java-based mini projects including ATM simulator and student grading system.
- Strengthened OOP, exception handling, and modular coding skills.

Projects / Research

Projects:

CodeAGENT Vulnerability Scanner | Smart Code Review Tool

AI-augmented code review tool integrating static analyzers (Semgrep, Bandit) with multi-agent LLM reasoning.

- Designed containerized FastAPI backend for repository scanning, deduplication, and severity-ranked reporting.
- Implemented deterministic test stubs, token accounting, and structured report generation.

Intelligent Q-A System

- Built an end to end RAG (Retrieval Augmented Generation) pipeline that crawls websites, auto indexes content (chunking + BM25 + TF IDF), and returns grounded, source attributed answers for domain restricted Q&A.
- Developed a FastAPI REST API and web UI (endpoints: /crawl, /index, /ask, /crawl-and-ask) plus evaluation/observability tooling (recall@k tests, timing metrics, logging) for real time, low latency querying and iterative tuning.

FSapp | Android Secured File Sharing Application

- Developed a file-sharing app in Java with AES, RSA, and SHA-256 encryption to ensure data security during transfer.
- Integrated Firebase for cloud storage and user authentication.
- Implemented functionality for offline sharing, key validation, and data integrity checks.

VoteKARO! | Online Voting System

- Created a voting app using React Native and Firebase Realtime Database, allowing remote voting with real-time result updates.
- Built secure login systems using Firebase Authentication and role-based access.
- Ensured scalability and compliance with security best practices for election data.

Research:

Research Paper | Sentiment Analysis of News Using Traditional ML Algorithms and Advanced Pre-Trained Models: A Performance Comparison | @ CODE AI 2025

- Presented as a short paper at CODE AI 2025. Compared performance of traditional ML models (Naïve Bayes, Logistic Regression) with pre-trained models (VADER, RoBERTa) on sentiment analysis tasks.
- Evaluated using accuracy, precision, recall, and F1-score, providing insights on model selection. This work contributes to understanding the trade-offs in sentiment analysis model selection for real-world applications.

Chapter Research | Artificial Intelligence for Military Applications with Blockchain | CRC Press (Published April 16, 2025)

- Co-authored a chapter discussing the integration of Artificial Intelligence and Blockchain in defense operations across India and the USA.
- Focused on autonomous vehicles, advanced weapon systems, command and control systems, etc.
- Highlighted real-world applications and future potential of secure, intelligent military technologies.

Education

Bachelor's in Information Technology	**2022-2026**
Manipal Institute of Technology, Bengaluru	
Senior Secondary Education (XI, XII)	**2020-2022**
Sri Chaitanya Junior College, Hyderabad	
Secondary Education (X)	**2019-2020**
Vikas The Concept School, Hyderabad	

Certifications

- Core Java Specialization
- Android App Development
- The ABCs of AWS: Learn the Basics of the AWS Cloud
- Oracle Database Specialization
- Computer and Peripheral Hardware