# Sashank Solasa

Software Development Engineer

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## EDUCATION

**B.Tech in Computer Science and Engineering** 2023 – 2027
*VIT-AP University, Amaravati* *CGPA: 8.53 / 10.0*

**Class XII (BIEAP)** 2023
*Sri Chaitanya Junior College, Vijayawada* *96.5%*

**Class X (BSEAP)** 2021
*Sri Chaitanya Techno School, Devarapalli* *99%*

## EXPERIENCE

**Full-Stack Developer (Freelance)** Jun 2026 – Jul 2026

- Built a supermarket POS and inventory system with barcode checkout, billing, stock tracking, supplier management, purchase orders and sales reports.
- Wrote a Spring Boot service that forecasts product demand, flags low-stock and slow-moving items, and suggests restock quantities.
- Added an LLM assistant so staff can ask sales and stock questions in plain English instead of digging through reports.

## PROJECTS

**Paraspa** | Flutter, Spring Boot, PostgreSQL, JWT, WebSockets Apr 2026 – Nov 2026 github.com/solasas/paraspa

- Built Paraspa, a social app where people teach and learn skills from each other, with Flutter and Spring Boot.
- Built the home feed by querying followed users' posts at read time instead of copying each post into every follower's feed, so a page loads in 16 ms with 300k posts.
- Switched to cursor-based paging and fixed a query that skipped its index, cutting feed queries from 193 ms to 3 ms.
- Sent notifications only after a change was saved, so failed actions never trigger them, and fixed a connection-pool bug that dropped every notification under load.

**DijkMap** | Spring Boot, PostgreSQL, PostGIS, Docker, React.js Jun 2026 – Oct 2026 github.com/solasas/DijkMap

- Built an OpenStreetMap-based route planner with a custom min-heap Dijkstra implementation over a 509K-node, 1.0M-edge road graph, computing 150 km inter-city routes in approximately 200 ms.
- Built bidirectional Dijkstra (27–33% fewer node expansions), Yen's k-shortest alternative routes and an isochrone API.
- Integrated LLM-based natural-language routing preferences, translating requests into hard constraints and soft preferences while preserving hard constraints and flagging requirements unverifiable from available map data.

**The Daily Truth** | FastAPI, LangGraph, Flutter, React Jul 2026 – Nov 2026 github.com/solasas/The-Daily-Truth

- Built a fake news detector that checks articles and short claims against trusted news and gives a verdict with reasons.
- Trained 20+ Machine Learning and Deep Learning models (best 85% accuracy). They only looked at writing style, so on unseen articles they dropped to 60% while still being very confident.
- Moved to a multi-agent setup in LangGraph where each agent handles one step, like extracting claims, finding evidence and checking it, and the system says "uncertain" when the evidence isn't enough.
- Got 88% accuracy on unseen articles with zero real news marked as fake, and 97% on short claims. Also added OCR for images, Hindi support and tracking of where a fake claim started.

## TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, SQL
- **CS Fundamentals:** DSA, OOP, DBMS, OS, Computer Networks, System Design
- **Backend:** Spring Boot, Spring Data JPA, Spring Security, REST APIs, WebSockets, FastAPI, Kafka
- **AI & ML:** NumPy, Pandas, Scikit-learn, RAG, LangChain, LangGraph
- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, IAM), Docker, Kubernetes, GitHub Actions
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Tools & Testing:** Git, GitHub, JUnit, Mockito, Postman, Maven, JMeter
- **Frontend & Mobile:** React.js, Flutter, HTML, CSS

## CERTIFICATIONS

- **Generative AI** — IBM
- **Java Spring Framework, Spring Boot** — Udemy
- **AWS Cloud Foundations** — AWS Academy
- **Flutter Essential Training** — Linkedin Learning

## LEADERSHIP

**Core Member** | Photography Club, VIT-AP

- Ran 1 photography workshop and 1 photowalk, with 50+ participants each.

**House Captain** | Sri Chaitanya Techno School, Devarapalli

- Led Kings house in inter-house sports and extracurricular competitions, building team spirit and promoting teamwork.