

SAVITHA

SOFTWARE ENGINEER

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SUMMARY

Software Development Engineer with 3 years of experience in backend architecture, RESTful API design, and cloud-native solutions. Proven track record at **TCS** and **Integra** in transitioning legacy systems to microservices and automating enterprise workflows using **Python, Django, and Azure**. Focused on building scalable, secure software with a specialized ability to integrate AI components into production environments.

TECHNICAL SKILLS

- **Languages:** Python, SQL, JavaScript, HTML/CSS.
- **Frameworks:** Django, Flask, Angular, FastAPI.
- **Cloud & DevOps:** Azure Cloud, Azure OpenAI, Docker, Git, CI/CD Pipelines.
- **Backend & Security:** Microservices, REST API Design, JWT/Header-based Auth, Kafka.
- **Database & Testing:** PostgreSQL, SQL Server, Unit Testing (PyTest/Unittest), Postman.
- **AI & NLP:** LLM Integration, Azure OpenAI, Prompt Engineering, OCR (PaddleOCR), Regex-based NLP

WORK EXPERIENCE

Integra Software Services | Software Engineer (ML) | Aug 2024 – Present

- **Automated Editorial Suite:** Developed a **Flask-based API** using **Azure OpenAI** and regex to automate title casing and editorial style rules, ensuring **100% compliance** across **10k+ articles**.
- **Internal QA Tooling:** Built a cross-platform Image Comparison tool using **OpenCV** and **PaddleOCR**, automating textual difference detection and reducing manual review time by **50%** through auto-generated PDF reports.
- **Real-time Dashboard:** Engineered a **Django-based** analytics dashboard to visualize high-frequency tracking data, optimizing SQL queries for sub-second data retrieval.

Tata Consultancy Services (TCS) | Assistant Software Engineer | June 2021 – Dec 2022

- **Cloud Automation:** Designed a generic API service to automate CSV generation and Azure File Share uploads, eliminating **100%** of manual effort and human error.
- **Systems Transition:** Played a key role in migrating a monolithic architecture to **Microservices**, improving system maintainability and deployment scalability.
- **Security & Business Logic:** Implemented **JWT authentication** for secure cross-application communication and developed a logistics engine that reduced penalty charges by **75%**.
- **Frontend Integration:** Developed responsive features and API integrations for 3+ modules using **Angular**

EDUCATION

Master Data Science Program

- IITM-GUVI | 2024

Bachelor of Engineering in Computer Science

- Institute of Road and Transport Technology | 2021