

Tharun Vankayala

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SUMMARY

Aspiring Software Engineer specializing in AI and Machine Learning, with expertise in developing scalable web applications as a Python Full Stack Developer using FastAPI, React.js, and AWS. Proficient in API integration, cloud computing, and AI-driven development, delivering high-performance, secure software solutions. Passionate about leveraging statistical analysis and machine learning algorithms to solve real-world problems and derive insights from large datasets.

WORK EXPERIENCE

Developer Intern at AcademixEdu (Violetearnx Private Limited)

Oct 2024 – Jan 2025

- Developed backend APIs using FastAPI and integrated React.js frontends, optimizing CI/CD pipelines with GitHub Actions, reducing deployment time by 30%.
- Implemented unit tests using pytest and collaborated in agile sprints, improving code coverage by 20% and meeting 100% of sprint deadlines.
- Ensured secure data handling and project confidentiality, complying with organizational standards.

PROJECTS

Movie Rating Website

[View Project](#)

Developed a full-stack platform for movie ratings, integrating third-party APIs, achieving 99% uptime on HTML, CSS, and JavaScript. Conducted unit testing with Pytest, ensuring 95% test coverage for frontend components, reducing bugs by 15%.

Tech Stack: React.js, Redux, TMDB API

AWS Automation with boto3

[View Project](#)

Automated cloud resource management using Python and boto3, cutting provisioning time by 50% and enhancing security compliance by 100% with IAM roles.

Tech Stack: Python, AWS SDK (boto3), EC2, S3, IAM

Advanced ATS Scanner

[View Project](#)

Built an AI-powered ATS scanner with Retrieval-Augmented Generation, improving resume matching accuracy by 35% and reducing screening time by 45%.

Tech Stack: FastAPI, OpenAI, Pinecone VectorDB

EDUCATION

2020 - 2024	BTech in CSE (AI and ML) at SRM University, Andhra Pradesh	(GPA: 7.85/10)
2020	Class 12th at Sri Chaitanya Junior College	(Percentage: 93.3%)
2018	Class 10th at Sri Chaitanya Techno School	(GPA: 9.2/10)

SKILLS

Technical Skills:

Languages & Frameworks: Python, JavaScript, FastAPI, React.js, Redux, MERN, Data Structures & Algorithms, OOPS

Frontend & UI/UX: HTML, CSS, Figma

Databases: MySQL, MongoDB

Cloud & DevOps: AWS (EC2, S3, Lambda, boto3), Docker, Git, GitHub Actions, CI/CD, Cloud Computing

AI & APIs: OpenAI, RAG, NLP, RESTful APIs, LangChain, API Testing

Others: Software Engineering, Agile Methodologies, Version Control (Git/GitHub), Networking

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability, Communication, Team Collaboration, Attention to Detail

CERTIFICATIONS & ACHIEVEMENTS

- Full Stack Development (Python) – Codecad
- Python Programming – HackerRank
- Mastering AI Tools and Prompt Engineering – be10X