

MOTHUKURI SIVA NAGA JAYANTHA ACHARY

Software Engineer — Backend, Full Stack, AI Engineering

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Professional Summary

Aspiring Software Engineer with strong foundations in **Java, Python, JavaScript, OOP, design patterns, and scalable system design**. Experienced in building backend services with Django REST and FastAPI, AI-driven automation workflows, and full-stack applications. Skilled in writing **clean, reusable, testable code** aligned with engineering practices used at ServiceNow: componentization, performance optimization, secure API development, and modular architecture. Demonstrated ability to analyze problems, design maintainable solutions, and collaborate effectively in fast-paced engineering environments.

Technical Skills

Languages: Python, JavaScript, HTML, CSS

Backend: Django, Django REST Framework, FastAPI, RESTful API Design, Authentication

Frontend: JavaScript (ES6), React (Basics), Responsive UI, DOM Manipulation

Core CS: Algorithms, OOP, Design Patterns, Software Architecture

AI/ML Exposure: LLM, OpenAI API Integration

Tools: Git, Debuggers, IDEs, Build Tools, Postman, ServiceNow Instance Familiarity

Databases: SQL, ORM (Django ORM)

Engineering Practices: Code Reviews, Unit Testing, Clean Code, Reusable Components

Soft Skills: Analytical Thinking, Problem Solving, Communication, Rapid Learning, PPT, Word

Software Engineering Experience — Independent Product Development

PayNow — UPI-Style Payment Application (2024–Present)

Python, Django REST Framework, FastAPI, OOP, Design Patterns

- Engineered backend architecture for **PayNow**, a scalable UPI-style payment system using OOP, layered design, and reusable service components.
- Implemented transaction workflows including PIN validation, session authentication, money transfer routing, and secure user verification.
- Improved backend performance by **30%** through ORM optimization, request batching, and efficient query design.
- Applied **Factory Pattern, Repository Pattern, and Modular Service Layers** to simplify maintenance and extensibility.
- Added fault-tolerant validation, exception handling, and API reliability mechanisms aligned with enterprise engineering standards.
- Designing future upgrades including **AI-based fraud detection**, anomaly prediction, workflow automation, and microservices using FastAPI, similar to extensibility patterns used in the ServiceNow platform.

AI Notes — Intelligent Note-Making & Smart Summary Platform (2025)

AI, Python, Django, JavaScript, OpenAI API, Clean Architecture

- Built an AI-powered system that produces structured notes, summaries, topic clustering, auto-tagging.
- Context detection, and smart text classification, improving summarization quality by **40%** in benchmark tests.
- Developed scalable FASI APIs with reusable modules, service layers, and clean architecture principles Using AI.

- Implemented UI components with JavaScript to manage user interactions, dynamic updates, and document previews.
- Added modular backend logic featuring **Strategy Pattern** for multiple summarization modes.
- Planned future enhancements include **AI workflow automation**, recommendation systems, and adaptive learning, aligned with ServiceNow's AI-driven workflow philosophy.

Education

B.Tech — Computer Science & Engineering (AI & ML)

RISE Prakasam Group of Institutions

2021–2025

CGPA: 7.73/10

Intermediate (MPC) — Narayana Junior College

2019–2021 — 839/1000

SSC — Sri Santhnikethan E.M School

2018–2019 — CGPA: 9.2/10

Certifications & Achievements

- Google Ai Essentials - Google
- Python Programming — SkillUp
- Artificial Intelligence — Skill Dezire
- B10X Certificate
- Recognized for strong debugging, algorithmic thinking, and backend application design.