

# PULA PAVAN KALYAN

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## PROFESSIONAL SUMMARY

Computer Science student with a strong foundation in **Java, Data Structures (DSA), and Full Stack Development**. Hands-on experience in building **Spring Boot REST APIs**, cloud-based applications using **AWS**, and solving complex algorithmic problems. Eager to contribute to scalable software solutions in a fast-paced engineering environment.

## TECHNICAL SKILLS

- **Languages:** Java (Core, OOPs, Multithreading Exceptions)
- **Backend Frameworks:** Spring Boot, Spring Security (RBAC), REST APIs, Hibernate, Spring MVC, Spring AOP
- **Cloud Services:** AWS (EC2, Lambda, S3, DynamoDB, Textract, SNS)
- **Databases:** MySQL, PostgreSQL
- **Tools:** Git/GitHub, Postman, LeetCode, HackerRank
- **Concepts:** Data Structures & Algorithms (DSA), Problem Solving, Agile Practices

## PROFESSIONAL EXPERIENCE

### AWS Cloud Intern | APSSDC | May 2025 – June 2025

- Designed an **event-driven receipt processing workflow** where users upload receipts to **Amazon S3**, automatically triggering backend processing.
- Implemented **AWS Lambda** functions to extract receipt data using **Amazon Textract (OCR)**, converting unstructured images into structured information.
- Integrated **Amazon SNS** to send **real-time notifications** upon successful receipt processing, improving system responsiveness and user awareness.
- Stored processed receipt metadata in **Amazon DynamoDB**, enabling **fast, scalable, and low-latency data access**.
- Built the solution using **serverless AWS services**, eliminating server management and ensuring **high scalability and cost efficiency**.

## TECHNICAL PROJECTS

### Online Election Voting System | Spring Boot, MySQL | [[Repo](#)] | [[Demo](#)]

- Built a **secure backend voting system** using Spring Boot and REST APIs, simulating real-world election workflows from registration to result declaration.
- Implemented **Role-Based Access Control (RBAC)** with Spring Security, achieving **100% prevention of unauthorized access** to admin and result-tallying APIs.
- Designed a **fully normalized MySQL schema** with **Many-to-Many relationships** between voters and the candidates table, resulting in **0 data redundancy** and **100% referential integrity**.
- Applied **transaction management and locking strategies** to ensure **0 duplicate votes**, even under **100+ concurrent voting requests** during stress testing.
- Optimized **SQL queries and indexing**, reducing **result calculation latency by 30–40%** compared to initial implementation.

## EDUCATION

- **B.Tech in Computer Science**, Aditya College of Engineering and Technology | 2023–2026
- **Diploma in Computer Engineering**, Dr. B.R.A.GMR Polytechnic | 2020–2023

## CERTIFICATIONS

- **AWS Cloud Computing** – APSSDC
- **Java, MySQL, and Problem Solving** – [[HackerRank](#)]