Pavankalyan Nagelli

Software Engineer | OPT Eligible | MS Computer Science – University of Central Missouri

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GitHub: https://github.com/Pavankalyans-repo | Portfolio: https://pavankalyans-repo.github.io/MyPortfolio/

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Professional Summary

Motivated Software Engineer with 3+ years of experience, including **Java development for Vanguard clients** at **TATA Consultancy Services** and IoT internship experience at Adobe. Skilled in **Java, Spring Boot, React, REST APIs, Cloud Platforms, CI/CD pipelines**, and **full-stack development**. Currently pursuing **MS in Computer Science**, seeking to leverage technical skills and problem-solving abilities in innovative, fast-paced environments.

Professional Experience

TATA Consultancy Services Ltd. – Hyderabad, India

Software Engineer | Oct 2021 – Jan 2024

- Worked as **Java Developer supporting Vanguard clients**, delivering backend solutions for enterprise applications.
- Developed and deployed **microservices** and APIs using **Spring Boot**, maintained CI/CD pipelines via Jenkins and Docker.
- Collaborated in **Agile Scrum teams**, handling production support, integration testing, and cloud deployment.

Adobe IoT Academy – Internship Trainee | Aug 2018 – Jan 2021

- Built IoT solutions integrating **Arduino/Raspberry Pi** with sensors and actuators.
- Developed **real-time monitoring projects** using Python and Embedded C.
- Gained hands-on experience in **embedded systems, data handling, and cloud logging**.

University of Central Missouri – Student Worker | Aug 2024 – Present

- Supported IT operations and campus administrative tasks.

Muleskinner (UCM Student Newspaper) – Student Volunteer | Aug 2025 – Present

- Created and assisted with **digital content, photography, and event coverage** for campus media.

Perplexity – Student Volunteer | Aug 2025 – Present

- Promoted **Comet student tool** via campus engagement and interactive events.

Guru Nanak Institute of Technology – Library & Lab Assistant | Aug 2018 – Jul 2021

- Managed library inventory and supported lab operations for students and faculty.

Self-Employed – Social Media Manager | Jul 2020 – Present

- Managed **content creation, social media campaigns**, and audience engagement strategies.

Education

University of Central Missouri – Warrensburg, MO

Master of Science (MS), Computer Science | *Dec 2025*

Guru Nanak Institute of Technology – Hyderabad, India

Bachelor of Technology (BTech), Electronics & Communications Engineering | *2021*

Technical Skills

Languages: Java, Python, C, Bash

Web & Database Technologies: HTML, CSS, JavaScript, SQL, MySQL, JDBC, REST API

Frameworks & Libraries: Spring Boot, Spring MVC, React, JUnit

Build & Version Control Tools: Maven, Git

Cloud & DevOps: AWS, GCP, Jenkins, Docker, Kubernetes (basic), Terraform (basic), Linux, CI/CD

Project Management & Methodologies: Agile Scrum, Jira, Confluence

Projects

Flight Rate Alerting System

Tech Stack: Java, Spring Boot, React, REST API, MySQL, Amadeus API, AWS

- Developed a **flight price tracking system** that notifies users via email/SMS when tickets drop below set thresholds.
- Developed RESTful microservices using Spring Boot and integrated React frontend for real-time flight tracking.
- Integrated **Amadeus API** for real-time flight data and implemented **Spring Scheduler** for automated alerts.
- Deployed backend microservices on **AWS EC2** with CI/CD pipelines.

Smart Job Fetch & Filter System

Tech Stack: Java, Spring MVC, REST APIs, MySQL, React, HTML/CSS

- Built a platform to **fetch real-time job openings** from company portals and filter by user skills and experience.
- Optimized backend logic for **skill-based matching** and automated notifications.
- Built REST APIs with Spring MVC to serve React-based frontend for job fetching and filtering.

IoT Disaster Management System for Dams

Tech Stack: Arduino, Raspberry Pi, Python, GSM, Cloud Dashboard

- Designed a **Smart Dam-Monitoring Solution** to send real-time flood alerts via sensors and GSM communication.

Certifications

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect-Associate
- Google Cloud Associate Cloud Engineer
- Spring Framework (Udemy)
- Agile Methodologies (Udemy)
- Linux Programming
- Google Prompting Essentials (Coursera)
- Fundamentals of Machine Learning & Artificial Intelligence (Coursera)

Additional Activities

- Finalist – *Smart India Hackathon 2019*
- National Service Scheme (NSS) Volunteer – 4 Years
- Active content creator & story teller on Instagram.