

# Pavankalyan Nagelli

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

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

## Professional Summary

Motivated Software Engineer with 3+ years of experience, including Java development for Vanguard clients at TATA Consultancy Services and IoT development at Adobe. Skilled in Java, Spring Boot, React, REST APIs, Cloud Platforms, CI/CD pipelines, and full-stack development. Selected as a Handshake AI Fellow (MOVE Program). Currently pursuing MS in Computer Science and seeking opportunities to apply strong backend, cloud, and problem-solving expertise in dynamic engineering teams.

## Technical Skills

Languages: Java, Python, C, Bash

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

Frameworks: Spring Boot, Spring MVC, React, JUnit

Tools: Maven, Git

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

Methodologies: Agile Scrum, Jira, Confluence

## Projects

### Flight Rate Alerting System

*Java, Spring Boot, React, MySQL, Amadeus API, AWS*

Built a flight price tracking system that notifies users via email/SMS when prices drop.

Integrated Amadeus API for real-time data and used Spring Scheduler for automated alerts.

Deployed backend on AWS EC2 with CI/CD pipelines.

### Smart Job Fetch & Filter System

*Java, Spring MVC, React, MySQL*

Developed job aggregator platform fetching real-time listings and filtering based on skills.

Built REST APIs and optimized backend matching logic.

### IoT Disaster Management System for Dams

*Arduino, Raspberry Pi, Python, GSM*

Designed a smart dam-monitoring alerting solution for early flood detection.

## Professional Experience

### Handshake AI – MOVE Program (AI Fellow) | Nov 2025 – Present - United States

Selected for a paid remote fellowship contributing to AI model improvement.

Performing AI output evaluation, data annotation, and prompt engineering tasks.

Awaiting project assignment for model-training contributions.

### University of Central Missouri – Student Worker | Aug 2024 – Present - United States

Support IT operations and campus administrative tasks, improving workflow efficiency.

**TATA Consultancy Services Ltd. – Software Engineer | Oct 2021 – Jan 2024 - Hyderabad, India**

Java Developer supporting Vanguard clients, delivering backend solutions for enterprise applications. Built and deployed microservices using Spring Boot; maintained CI/CD pipelines through Jenkins and Docker. Participated in Agile Scrum ceremonies and resolved production issues with cross-functional teams.

**Adobe IoT Academy – Internship Trainee | Aug 2018 – Jan 2021 - Hyderabad, India**

Built IoT solutions integrating Arduino/Raspberry Pi with sensors and actuators. Developed real-time monitoring tools using Python and Embedded C. Worked on cloud logging and embedded system optimization.

**Guru Nanak Institute of Technology – Library & Lab Assistant | Aug 2018 – Jul 2021 - Hyderabad, India**

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

**Volunteer Experience****Perplexity – Campus Ambassador (Comet Browser) | Aug 2025 – Present - United States**

Promoted and represented Comet Browser on campus to increase user engagement. Organized awareness campaigns, outreach sessions, and product demos.

**Muleskinner UCM – News Reporter | Aug 2025 – Present - United States**

Write and publish news, feature stories, and digital media content for UCM's student newspaper. Collaborate with editors to deliver content for online and print editions.

**Self-Employed – Social Media Manager | Jul 2023 – Present**

Managed content creation, social media campaigns, and audience engagement strategies. Active creator across Instagram and Blogger.

**Education**

University of Central Missouri – Master of Science (MS), Computer Science | Dec 2025

Guru Nanak Institute of Technology, Hyderabad – Bachelor of Technology (BTech), ECE | 2021

**Certifications**

AWS Certified Cloud Practitioner

AWS Certified Solutions Architect – Associate

Google Cloud Associate Cloud Engineer

Spring Framework

Agile Methodologies

Linux Programming

Google Prompting Essentials (Coursera)

Fundamentals of Machine Learning & AI (Coursera)

**Additional Activities**

Finalist – Smart India Hackathon 2019

National Service Scheme (NSS) Volunteer – 4 Years

Active content creator, storyteller, and blogger on Instagram