

Pavan Barla

Lead Software Developer

Bachelor's in Computer Science, IIT Indore

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Skills

- Java | Spring Boot | Python | FastAPI | JavaScript | TypeScript | ReactJS | NextJS | TailwindCSS | SQL | MongoDB | DynamoDB
- Micro-services | Event-Driven Architecture | Distributed Systems | Serverless Compute | REST | Full-stack | Front-end | Back-end
- AWS (EC2 | ECS | Lambda | DynamoDB | Amplify) | Firebase | Terraform | Gitlab CD-CD | Containerization | Docker | Kubernetes
- AI Agents | LangGraph | Tool Calling | Prompt Engineering | RAG | Vector Database (PgVectorScale) | Model Context Protocol

Projects & Experience (11+ Years)

AI Development Lead

Accenture

Hyderabad, India | Oct 2024 - Jun 2025

- Needed to develop a marketable AI-powered customer support agent as a reusable asset for enterprise clients.
- Developed an **AI agent** using **LangGraph, RAG & Advanced Prompt Engineering** (role assignment, CoT, meta-prompting).
- Delivered **production-ready agent, secured 3 clients** in pipeline for integration into their customer support systems.

Software Development Lead

Aldermore Bank (Accenture)

Hyderabad, India | Feb 2023 - Sep 2024

- Legacy payment processing systems (for mortgages) lacked scalability and resilience, causing delays & failures during peak load.
- Designed and built **fault-tolerant, event-driven** microservices using **Spring Boot, AWS, Terraform, and GitLab CI/CD**.
- Delivered production-ready microservices architecture, **praised by stakeholders** for clean design & extensibility for future scaling.

Senior Software Developer

Diageo (Accenture)

Hyderabad, India | Oct 2022 - Jan 2023

- Inventory operations lacked centralized access control, causing delays and data inconsistencies.
- Built a custom low-code portal using **PowerApps & Microsoft 365** tools, integrating both front-end & back-end workflows.
- Built custom workflows in **PowerApps** to overcome the limitations and rigidity of the no-code framework.
- Streamlined access management across teams and reduced manual coordination, **improving operational efficiency**.

Software Development Lead

American Eagle (Accenture)

Hyderabad, India | Jul 2021 - Sep 2022

- Inventory tracking systems lacked scalability and needed rapid redevelopment using cloud-native technologies.
- Led full-stack development using **Python, FastAPI, ReactJS** - quickly upskilled on unfamiliar tech & guided delivery.
- Delivered a **fully functional MVP in 8 weeks**, setting the foundation for scalable inventory operations.

Senior Software Developer

HSBC Bank (Accenture)

Hyderabad, India | Feb 2019 - Jun 2021

- Needed to transform fragmented customer data from various sources into a unified model for credit-worthiness evaluation.
- Built **scalable, fault-tolerant services** using **Spring Boot** and **Oracle** to handle up to **200 transactions/sec**.
- Successfully delivered robust event-driven data processing infrastructure, enabling accurate, high-throughput credit decisioning.

Senior Software Developer

Fastcollab

Hyderabad, India | Jun 2016 - Jan 2019

- Built an end-to-end corporate travel portal in Java to streamline requests, approvals, & bookings for enterprise clients.
- Enabled faster, compliant travel planning for large companies, reducing manual coordination & improving efficiency.

Software Developer

Bharat Petroleum

Mumbai, India | Jun 2014 - May 2016

- Developed customer-facing web modules & a centralized payment gateway for DBTL using Java & web frameworks.
- Improved subsidy delivery transparency and digital access for over 125M LPG consumers across India.

Education

Proficient in English, Telugu, Hindi

Bachelor's Degree in Computer Science

IIT Indore

Indore, India | Jul 2010 - May 2014

Data Structures & Algorithms | Computer Networks | Machine Learning | Computer Vision | Compiler Design | GPA 7.5

Achievements & Key Milestones

- Built a personal project - <https://qwikvideo.co> - a platform to create template-based marketing videos for B2C brands.
- In my first role as a team lead with American Eagle, I have delivered a full-stack project with a team of 8 developers in 3 months.
- Multiple Above & Beyond awards for client delivery excellence and going beyond my responsibilities during my time at Accenture.
- Part of a Guinness world record for the largest subsidy transfer project in the world for the LPG wing at Bharat Petroleum.
- Led a team that built and successfully delivered a chatbot AI agent with Langgraph, LLMs & RAG, skills totally new to me.