

AMARTYA YADAV

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Education

Harcourt Butler Technical University

Dec 2020 – Jun 2024

Bachelor of Technology in Information Technology (CGPA 9.0/10.0)

Kanpur, Uttar Pradesh

Technical Skills

JavaScript, TypeScript, Python, C/C++, SQL, CUDA, React, Node.js, Express.js, REST APIs, WebSocket, LangChain, LangGraph, Azure SQL, Azure Cosmos DB, Docker, Git, Grafana, Prometheus

Experience

Walmart Global Tech India

Jul 2024 – Present

Software Engineer II – GWFM Team

Bengaluru, Karnataka

- Own and maintain **11 microservices** (React, Node.js, TypeScript) on Walmart's WCNP platform, powering workforce management tools used by **15K+ store associates** and **1,000+ managers** daily across **4,600+ US stores**. Awarded **Bravo Award** within first two quarters for engineering excellence.
- Delivered **LA Fairwork Week** compliance features across 13 LA stores and onboarded **Pharmacy scheduling support**, meeting a hard Jun 2025 regulatory deadline – refactored legacy monolith into separated UI/business-logic/state layers with role-based access control for **5+ user roles** and **zero auth-flow failures** post-launch.
- Maintained **99.9% uptime** through proactive monitoring (Grafana, Prometheus, OpenObserve) with a **sub-30-minute** detection-to-fix cycle for production incidents across biweekly Concord/Looper deployment pipelines.
- Lead **AI initiatives** within the team – built Dev-Assistant (LangChain + Claude Opus) to automate the Change Request lifecycle, reducing CRQ preparation time by **70%** across 3 product teams.

Samsung Electronics India

Jan 2024 – Jun 2024

Research & Development Intern | Generative AI Team

Noida, Uttar Pradesh

- Built an image capture and transformation pipeline (alignment correction, contrast enhancement, contour detection) for **Samsung Health's** lab report scanner, achieving **99% OCR read accuracy** across varied lighting and document formats.
- Trained models to extract and classify lab test parameters against biological reference ranges, delivering a **graphical health dashboard** with historical trend tracking – shipped to Samsung Health, pre-installed on **all Samsung Galaxy** devices.

Projects

LA FairWork Week GFE | React, Node.js, TypeScript

Jan 2025 – Aug 2025

- Led the complete rewrite of a legacy workforce scheduling tool to meet LA Fairwork Week labor compliances – migrated from a **single-step flow** to a **5-step** configurable process with manager/associate notification support. Recognized as **Top Win of the Quarter** at US Omni Tech & Platform level.
- Refactored the monolith frontend: separated business logic from UI components, extracted state management into dedicated layers, and eliminated frontend-embedded business rules – reducing bug surface and enabling independent deployability of **11 backend services**.
- Designed a custom **RBAC authorization layer** supporting 5+ roles (associate, people lead, manager) with clock-in status verification, achieving **zero authentication failures** since launch across **15K+ daily users**.

Dev-Assistant (AI-Powered CRQ Automation) | Node.js, LangChain, Claude Opus, WebSocket Oct 2024 – Present

- Architected a **multi-agent AI system** using LangChain tool-calling agents and Claude Opus (via Walmart LLM Gateway) to fully automate the Change Request lifecycle – creation, review, and quality scoring – reducing CRQ preparation time by **70%** across 3 product teams.
- Designed an **MCP (Model Context Protocol) SSE server** with per-connection server factory pattern and **12+ LangChain tools** orchestrating parallel calls to GitHub, ServiceNow, and internal deployment APIs for IDE-native CRQ workflows.
- Built an **AI-powered quality scoring engine** (0–100) analyzing risk, impact, tier, and code coverage, with a real-time **WebSocket chat interface**, Kanban review board, and LLM-generated executive summaries for manager review.