

YASHASWA VARSHNEY

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PROFESSIONAL SUMMARY

Agentic AI and Backend Engineer specializing in workflow orchestration, ERP integrations, LLM powered automation, and distributed backend systems. Experienced in building production grade AI agents for finance, accounting, enterprise workflows, document processing, and browser based automation.

EXPERIENCE

Manrke, Canada, Remote: Software Developer (Contract)

July 2025 – Present

- Developed Calcul8, an AI-driven email interfaced assistant that links to QuickBooks, it manages tasks like creating bills from emails (with attachments), sending payment reminders, handling auto payment workflows, and generating customer reports with financial analysis including tax insights, spending patterns, and historical comparisons.
- At the core of system is an agentic pipeline that uses LLM tool-calling for structured outputs, focused heavily on building a one shot invoice-to-bill workflow, with 97%+ accuracy in determining tax calculation, capturing payment information and classifying invoice categories.
- Infrastructure runs on Kubernetes and Terraform with serverless ERP connectors, the system has maintained 99%+ uptime.

HyperBots, Bengaluru, IN: Software Development Engineer

Aug 2024 – July 2025

- Built and maintained ERP integration pipelines that processed 10k+ requests per second across multiple erp systems, with 99.9% uptime.
- Used Kafka and AWS Lambda to run event-driven AI workflows for tool calls and fallbacks, cut response latency by roughly 30%.
- Developed LangGraph agents that could adjust to ERP schema changes on their own, which saved significant engineering time.

Finzome, Mumbai, IN: Jr Software Developer

Nov 2023 – Aug 2024

- Developed automated data collection pipelines using LLMs and Playwright to extract financial announcements, live board meeting transcripts, and government disclosures from dynamic web, handling proxy rotation, retry logic and rate-limit.
- Wrote financial data pipelines and stock backtesting libraries in Python with c to achieve fast calculation over a ton of data.
- Built and maintained a serverless Learning Management System (LMS) supporting automated video transcription, scalable content delivery, and secure payment processing for course sales.

AR Quants, Mumbai, IN: Software Developer Intern

Jan 2023 – Aug 2023

- Worked on building automation for stock scanners, managing multiple client accounts, and adaptive parameter fine tuning for option trading algorithms according to risk and volatility.
- Developed custom TradingView Pine Script indicators, strategies, and dashboards as per client requirements.

TECHNICAL SKILLS

AI & Agentic Systems: LangGraph, Tool Calling, Workflow Orchestration, Autonomous Agents, LLMops, Structured Outputs, Multi-Agent Systems

Backend & Infrastructure: Python, Go, Docker, Kubernetes, Terraform, Kafka, GitHub Actions

Cloud & Data Platforms: AWS, GCP, Supabase, InfluxDB

Enterprise & Workflow Domains: ERP Integrations, Financial Automation, Business Process Automation, Event-Driven Systems, Backend Systems

Core Strengths: System Design, AI Workflow Architecture, Rapid Prototyping, Analytical Problem Solving

SELECTED IMPACT

- Delivered production AI workflows for finance and accounting teams using ERP-connected agentic systems.
- Designed and implemented AI agents capable of generating reusable automation scripts for recurring business and engineering workflows.
- Provided low-latency, event-driven systems for financial validation, reconciliation, and operational queries.
- Created AI-assisted tools for document workflows, quantitative research, and business process automation.

PROJECTS

DOCX-Agent: LangGraph Document Workflow Agent

[GitHub]

- A LangGraph agent for structured DOCX editing and business document workflows, handles navigation, content generation, and controlled modifications with full execution tracking.
- Stateful design with memory and tool use, includes Docker-based code execution and image generation for automated report and infographic creation.

LangTrade: Agentic Trading Research Workflow

[GitHub]

- Open-source tool that takes natural language input and generates trading strategy code for backtesting and time-series analysis.
- Automates strategy refinement, statistical checks, and parameter tuning so research cycles move faster.

SoISplit: Distributed Voting Service (among top submissions in solana's colosseum hackathon 2024)

[GitHub]

- Anonymous voting service over a distributed Solana validator network, using Go, MPC, VRF, and threshold signatures.
- Implemented a t-of-n threshold scheme with verifiable randomness for decentralized vote signing.
- Developed a peer-to-peer gossip protocol to keep validators in sync reliably.

EDUCATION

B.Tech in Computer Science Engineering, 2020 – 2024

8.30 CGPA

KIIT University, Bhubaneswar, IN

(max SGPA: 9.3)

Relevant Coursework: Minor in Financial Economics & Data Analytics

INTERESTS

trading systems, basketball, swimming, hiking, and blogging on AI and finance: [Medium]