

# Nakul Bhardwaj

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## EDUCATION

### Dr. A. P. J. Abdul Kalam Technical University, Lucknow

Computer Science Engineering Data Science

sep 2022 - sep 2026

## EXPERIENCE

### Dynalink

<https://www.dynalink.in/>

July 2024 – Sep 2024

Software Engineer

New Delhi

- Developed and maintained backend services using Node.js with Express and NestJS.
- Deployed applications on AWS, utilizing EC2, Route 53, S3, and Lambda for infrastructure management.
- Handled DevOps tasks, setting up CI/CD pipelines with GitHub Actions, Jenkins, and Docker.
- Configured and managed Nginx for reverse proxy and load balancing.

### Dynalink

<https://www.dynalink.in/>

Sep 2024 – Present

CTO

New Delhi

- AI/ML & GenAI – Fine-tuned Whisper for transcription, built datasets, and performed inferencing.
- Backend & DevOps – Built scalable services, worked with Docker, AWS, and integrated AI models.
- Tech Stack – Used Python, PyTorch, Transformers, Diffusers for AI/ML development.

### Cosmikcapital

June 2025 – present

Tech Lead – Quantitative Research & Trading Systems

Bangalore, India

- Leading development of quantitative trading strategies across equities and options with a focus on statistical edge and robust risk management.
- Designing and implementing backtesting frameworks and live/paper trading systems to evaluate and deploy strategies at scale.
- Applying machine learning and optimization techniques to enhance trading performance and hyperparameter tuning of models.
- Building end-to-end trading infrastructure, including strategy research, execution systems, and monitoring using AI-driven agents.

## PROJECTS

### Cloud-assist

<https://github.com/nakulbh/cloud-assist>

- Developed Cloud-Assist, an AI-powered terminal assistant for DevOps.  
Built with Go (Bubble Tea CLI) and Python (LangGraph AI agent).  
Provides natural language to command translation with secure approval.  
Enables real-time troubleshooting, deployment, and cloud automation.

### Zipline-engine-backtesting-wrapper

<https://github.com/nakulbh/zipline-engine>

- Built a backtesting framework by wrapping Zipline-Reloaded and PyFolio-Reloaded. Designed a base strategy class to simplify writing and testing equity strategies. Integrated MLflow for hyperparameter tuning, tracking, and experiment management. Provides comprehensive performance analytics for systematic trading research.

## TECHNICAL SKILLS

**DevOps & CI/CD::** Docker, Kubernetes, GitHub Actions, Jenkins, Git, AWS

**AI & Generative AI::** Skilled in developing and integrating AI agents using LangGraph and Google AI SDK, enabling intelligent automation

**Programming Languages::** TypeScript, Golang, Python

**Backend:** Python (FastAPI, Celery, SQLAlchemy, RabbitMQ, Kafka), TypeScript (Express.js, NestJS, Prisma, Drizzle ORM, Socket.IO), Go (Gin, Fiber, Echo, Chi, gRPC, Gorilla WebSocket) Databases (PostgreSQL, MySQL, MongoDB, DuckDb, SQLite), Caching (Redis), Search (Elasticsearch), Infra/Observability (Docker, Kubernetes, Terraform, Prometheus).