



# KARTIKYA THAKUR

Simplifying processes | Building solutions

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## SKILLS

### Technologies

Azure · AWS · Apache Kafka · Event Hubs ·  
Machine Learning · RAG · LLM ·  
Microservice Architecture

### Database, Transformations & Reporting

MongoDB · SQL Server · MySQL · SSIS ·  
Azure Synapse · RDBMS · NoSQL ·  
Power BI

### Back-end & Front-end

Nest JS · Node JS · Python · .NET C# ·  
Next JS · ReactJS · Typescript ·  
Javascript ES6

### Other Skills

CI/CD · Github · Azure DevOps · JIRA ·  
Confluence · ML Ops · JWT · OAuth

## STRENGTHS

### 🔗 Flowcharts that simplify

For as long as I have been working I have found flowcharts to be a great tool for bringing everyone on same page while allowing us to uncover gaps in the process

### ⚙️ Adaptability

I acknowledge the inevitability of change. Therefore, I divide my projects into multiple parts and visualize them if necessary. I ensure that my code is modular and well-documented.

### 👤 Accountability

I take ownership of my mistakes. If a mistake happens, I learn from it to be better going forward.

## EDUCATION

### B.Tech - Computer Science

M.D.U  
06/2008 - 05/2012 India  
GPA | 3.1 / 4.0

## SUMMARY

I have over 12 years of experience in various aspects of software product development, including discovery, requirements gathering, database systems design, backend design, deployment orchestration. Being technology-agnostic, I've learned various languages and frameworks concurrently while working on multiple projects. This made me adaptable to changing tech trends, providing efficient and effective solutions.

## MY RECENT PROJECTS

Software Architect 06/2021 - Ongoing  
Digiaccel Learning Remote | India

Digiaccel Learning is an ed-tech startup that provides industry-specific training and mentorship to help learners achieve measurable career outcomes. They have secured \$1.8M in Series-A funding.

- Designed **system architecture** and **Mongo DB schema** for their **LMS** on **AWS Cloud**
- Built multiple **microservices** that run in **Docker** containers as **distributed systems**
- Deployed **Kafka** in **multi-cluster** for **high availability** of queuing and messaging
- Performed code review for 100s of **REST API** and **gRPC** methods
- Built the **CI/CD pipelines** for deployment of microservices over **AWS ECS** for **scaling**
- Setup serverless notification using **AWS Lambda**

Machine Learning Consultant 11/2023 - 01/2024  
PredictAP Remote | US

PredictAP offers tools to automate various tasks related to invoice processing

- Uplifted product's predictive model precision by 10%
- Reduced the data extraction time by 40%
- Created **Streamlit** dashboards to monitor data skew for predictive analysis
- Designed **ETL pipeline** using **Python** to avoid delta in **Snowflake** ingestion

Data Architect 02/2022 - 05/2023  
Alliantgroup Houston, TX

Alliantgroup is a national tax consulting services firm that works with CPA firms and their business clients to identify and claim available tax credits and incentives.

- Improved data quality by 30%
- Helped setup the **Azure Infrastructure, IAM** and designed the **Data Warehouse**
- Setup **Kafka Steams** with **Azure Event Hub** as ingestion stream for **Data Pipeline**
- Improved the data availability for reports to allow near real-time reporting
- Coordinated the **migration** from **on-prem** to **cloud**

Machine Learning Trainer 06/2021 - 09/2021  
Experian Plano, TX

Experian is a multinational data analytics and consumer credit reporting company based in Dublin, Ireland. It collects information on over 1 billion people and businesses, including 235 million US consumers and 25 million US businesses.

- Trained a batch of 10 individuals on basics of **Machine Learning**
- Provided 8 training sessions over a span of 2 months
- Guided them to leverage **open source libraries** from within **AWS Sage Maker**
- Established best practices for **Data Engineering** and **MLOps**

Software Architect 10/2020 - 02/2022  
SW-GR Remote | UK

SWGR is nation's leading provider of skilled personnel for Railways and infrastructure support services to UK Rail Industry clients since 30+ years of experience.

- Reduced the incident reporting time by 50%
- Designed the **Software Architecture** to support **Web Portal** and **Mobile App**
- Implemented **on-prem Kafka** for notifications and messaging service
- Took charge of digitizing various departments from pen & paper to **Azure Cloud**
- Setup the **Azure infrastructure** to serve **.NET APIs** and **MySQL cluster**

## TOOLS

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VS Code · Slack · Postman · Lucidcharts

## REFERENCES

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Sankalp Shashtri - CTO | CG  
Infinity

[+1 \(940\) 293-5294](tel:+19402935294)

Alok Kumar - CTO | Insala

[+1 903-453-4058](tel:+19034534058)

## EXPERIENCE

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Principal

02/2020 - 11/2023

CG Infinity

Houston, USA

IT consulting with 20+ years of expertise. Global team of 300+ delivers results with tech.

- Leading executive summary meetings
- Managed detailed project plans over **Atlassian JIRA**
- Lead project team of 10 people, including offshore, through **agile methodologies**
- Configuring and maintaining **MLOps** and **DevOps** pipelines
- Creating and **documenting project architecture**

Manager

04/2013 - 02/2020

Cyber Group

Noida, India

IT consulting with 20+ years of expertise. Global team of 300+ delivers results with tech.

- Create and deliver project status decks
- People management and task delegation
- Interviewing new talents
- Developing web applications and web services
- Creating POC back-end and front-end using stub APIs & JS Frameworks
- Leading scrum calls
- Remote deployment of software

Developer

03/2012 - 04/2013

Farsight

Faridabad, India

Easy to implement Payroll and HR systems for SME

- Improved a critical module cutting short it's processing time by 90%
- Client-side software deployment and configuration
- Requirement elicitation from clients
- Tailored software development based on client requirements
- Providing technical training to employees