

# PRINCE GARG

Full Stack Developer | System Design | Cloud Computing | B. Tech | CSE  
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## PROFILE SUMMARY

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Experienced in backend technologies such as Golang, Spring Boot, Node.js, Flask, and Java. Passionate about data and technology. Exploring the intersections of computer science and software development. Keen interest in solving real-world problems and system design. Cloud Computing with hands-on experience in GKE-based microservices, BigQuery analytics, and scalable architecture design. Skilled in deploying, managing, and optimizing cloud-native solutions for real-time performance and cost efficiency.

## EDUCATION

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**The NorthCap University** May 2027  
B. TECH(ComputerScience) CGPA:8.89

**Oxford Public School XII(Grade-8.14) X(Grade-8.5)** May2023

## TECHNICAL SKILLS

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**Frontend Framework:** React | HTML | CSS | Bootstrap | JavaScript | JQuery | TypeScript | TailwindCSS.

**Backend Framework:** Java | Python | SpringBoot | PHP | Node.js | Express.js | Asp.Net.

**Android Tools:** Kotlin | Flutter | Fastlane | Glide | Firebase.

**Cloud Services:** Google Cloud| Microsoft Azure | Nvidia Cloud | AWS

**Databases:** MySQL | MongoDB | Supabase |

**Deployment Tools:** Docker | Jenkins | Vercel | Netlify | Render | Streamlit

**Devops:** CI/CD Pipeline | Microservices | Gradle | Kubernetes | Grafana | Terraform | GitHub.

**Gen AI Tools :** RAG | MCP | Lora | LangChain | Hugging Face | FAISS | OpenAI.

## EXPERIENCE

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**AI-Driven Fire Safety Monitoring System**  
Edunet Foundation | July 2025 – August 2025

- Developed an interactive Streamlit dashboard for real-time fire safety monitoring using IoT sensor data.
- Implemented 3D visualization of fire parameters (temperature, humidity, smoke intensity, flame detection) for intuitive insights.
- Designed data preprocessing and anomaly detection pipeline to identify potential fire hazards early.
- Built a user-friendly UI with customized alignment, markdowns, and captions to enhance usability and presentation.
- Collaborated in a team environment, ensuring seamless integration of data analysis and visualization modules.

**Cloud Cost Optimisation Dashboard**  
Codec Technology | June 2025 – July 2025

- Developed a dynamic Power BI dashboard for visualizing and optimizing Google Cloud Platform (GCP)
- Implemented service-wise cost breakdowns, project-level expenditure analysis, and usage trend tracking.
- Delivered an interactive and user-friendly dashboard accessible via Power BI service.
- **Live Link:** [View Dashboard](#)

## PROJECTS

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### Slot Swapper [Link](#)

- Developed a full-stack peer-to-peer slot swapping platform using Next.js, React, Tailwind, and MongoDB, enabling users to create, mark, and exchange time-based events in real time.
- Implemented secure authentication and session handling with JWT + bcrypt, along with protected API routes to ensure safe data access and user authorization flows.
- Designed and integrated atomic swap transaction logic to guarantee consistent event ownership updates, preventing race conditions and ensuring reliable swap acceptance/rejection.

### Smart Farming Monitoring IoT System [Link](#)

- Developed a Spring Boot-based Smart Farming IoT Monitoring System with RESTful APIs for real-time field and sensor
- Implemented JWT authentication and role-based access control using Spring Security for ADMIN and FARMER roles.
- Built analytics endpoints to identify fields needing attention based on temperature, moisture, and pH levels.
- Integrated AOP for logging, wrote JUnit 5 unit tests, and documented APIs using Swagger/OpenAPI.
- Used H2 in-memory database for testing and simulation; supported secure login with encrypted passwords (BCrypt)

### DocuMind – RAG-powered Intelligent Document Assistant [Link](#)

- Developed a Retrieval-Augmented Generation (RAG) assistant for document interaction (PDF, text, images)
- Implemented Flask backend with OCR, text chunking, FAISS vector indexing, and RAG pipeline
- Built Gradio frontend for seamless file upload and chat-based Q&A with citation-backed answers
- Supported multi-format files with memory management and modular, scalable deployment

## AWARDS

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Career Essentials in Generative AI by Microsoft and LinkedIn [Certificate](#)

July 2024

AWS Academy Graduate - AWS Academy Cloud Foundations [Certificate](#)

November 2023

Deploying and Evaluating GenAI Apps with MongoDB [Certificate](#)

March 2025