

# Rahul Singh

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## WORK EXPERIENCE

### SDE II @Copieux Techknowledge Analytics

Aug 2023 - Present

- Achieved an 80% AI model integration, significantly reducing human efforts by 40% on the platform.
- Utilized 25+ AWS services to achieve a scalable system with 99.9% uptime.
- Developed RESTful APIs and microservices in Python, reducing response times by 30%.
- Tech-stack: **Python, Golang, MySQL, AWS, Linux.**

### Python Developer @Codesure Software Solutions

Mar 2021 - Aug 2023

- Developed and implemented 5+ software applications using Python, improving efficiency by 25
- Led the design and development of a Real-Time Trading Application for the Forex market using Golang and React, handling 500+ transactions per second.
- Wrote 120+ automated unit tests, increasing code coverage to 90%, and built RESTful APIs for seamless integration.
- Tech-stack: **Python, Django, Flask, PyQt5, MySQL, Linux, React, MongoDB.**

## EDUCATION

### Indira Gandhi National Open University

- Masters of Computer Applications Sep 2025
- Bachelor of Computer Applications Sep 2023

## TECHNICAL SKILLS

<b>Programming Languages:</b>	Python, Golang, JavaScript
<b>Frameworks &amp; Technologies:</b>	Django, Flask, React, WebSocket
<b>Cloud &amp; DevOps:</b>	AWS, Docker, Kubernetes
<b>Databases:</b>	MySQL, Redis, MongoDB
<b>Design &amp; Architecture:</b>	Architecture Design, Message Brokers, Real-Time Data Processing
<b>Other:</b>	OpenSearch, Bedrock, Secure VPC Architecture

## PROJECTS

### MyCareerNext

[Link](#)

- Implemented backend with **Python** and **MySQL**, integrating 25+ AWS services for 99.9% uptime.
- Utilized **Redis** for caching, **Bedrock** for stability, **Docker** and **Kubernetes** for containerization, and **CloudFormation** for infrastructure as code.
- Designed secure **VPC** architecture, implemented **OpenSearch**, and followed best practices in **REST API** design and unit testing, increasing reliability by 50%.
- Tech-stack: **Python, MySQL, AWS, Redis, Bedrock, EKS, Docker, CloudFormation, VPC, OpenSearch, REST API, Architecture Design.**

### Videalpha - Algorithmic Trading Application

[Link](#)

- Developed a real-time algorithmic trading platform for Forex and cryptocurrency markets, executing 500+ trades per second and implementing advanced trading strategies and risk management algorithms.
- Built robust and scalable systems to handle high-frequency trading and process 1TB+ of data daily using **Golang** and **React**.
- Tech-stack: **React, Golang, RESTful APIs, Multithreading, Multiprocessing, AWS Elastic Beanstalk, MongoDB, Firebase.**