

# Sanjay Kumar

## Full Stack Engineer

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### Profile

Seasoned Full Stack Engineer with over 11 years of experience, including 7+ years in IT and 3+ years in research at IIT Hyderabad. Adept at building high-quality web, mobile, and backend solutions across diverse domains such as IoT, telecom, finance, and R&D. Skilled in designing scalable architectures, optimizing performance, and solving complex technical challenges.

Proficient in Python, FastAPI, React.js, Java, Spring Boot, Docker, AWS, Cassandra, CICD, and Kafka. Experienced in leading cross-functional teams and delivering innovative solutions under tight deadlines. Passionate about leveraging technology to drive efficiency, enhance user experiences, and achieve business goals.

Key strengths:

- Full-stack development (web, backend, mobile)
  - API design and integration
  - Data engineering and pipelines
  - Cloud computing (AWS)
  - System design and optimization
  - Team leadership and mentoring
  - CICD Pipeline
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### Work Experience

#### Team Lead - Application Development

**Ameriprise Financial Services, LLC** (April 2023 – Present)

- Led full-stack web application development, ensuring scalability and high availability.
- Designed backend APIs using Python FastAPI, integrating AWS services like Lambda and DynamoDB.
- Built user-friendly front-end interfaces with React.js.
- Automated CI/CD pipelines using Git, Jenkins, and AWS EC2 for projects such as Release At Will, Alert Preference, and CashEdge.
- Developed rule management systems integrating Machine Learning models for fraud detection.
- Created synthetic monitoring tools for client credential security using Cypress and Docker.

## Engineer - II

### Verizon India Pvt Ltd (April 2019 – April 2023)

- Streamlined data pipelines by implementing CDC from Cassandra to Oracle using Kafka.
- Built multithreaded applications for data synchronization and feed generation.
- Automated repetitive tasks with a Java-based Code Generator tool.
- Delivered the Promo Loader application, ensuring timely customer offers.
- Designed and deployed microservices using Java-Spring Boot.

### Member of Technical Staff

### Qolsys India Pvt Ltd (February 2017 – March 2019)

- Developed a full-stack Cassandra workbench for quick learning by developers.
- Automated API development using a Code Generator tool for Cassandra.
- Configured and monitored Cassandra clusters to improve reliability.
- Was part of a team working on Cassandra cluster creation using Docker and Kubernetes for scalable deployments.
- Created a voice-controlled home automation mobile app.
- Applied computer vision techniques using TensorFlow for object detection in videos.

### Project Staff

### IIT Hyderabad (August 2013 – February 2017)

- Developed web and Android applications, ensuring high usability and performance.
- Configured Linux systems for optimized deployments.
- Worked on IoT projects using Arduino and Raspberry Pi.
- Contributed to research projects with innovative software tools.

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## Education

### BV Raju Institute of Technology (2014 - 2017)

Hyderabad, Telangana

Master of Computer Application (MCA)

### Pt. Ravishankar Shukl University (2009 - 2012)

Raipur, Chhattisgarh

Bachelor of Computer Application (BCA)

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## **Hobbies**

Traveling and learning

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## **Contact**

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