

# Deepak Sahu

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Creative and dynamic software developer with 5 years of experience pursuing Master's in software engineering. Seeking **Software Engineering** position starting December'22 where my education and experience will be utilized to the fullest.

## EDUCATION

**Arizona State University**, Tempe, Arizona

Aug21-Dec'22

*Master of Science in Computer Software Engineering / GPA: 3.89/4.0*

Relevant Courses: Advance Data Structure and Algorithm, Foundation of Software Eng., Web Semantic Eng.

**KIIT University**, Bhubaneswar, India

Aug12-May16

*Bachelor of Technology in Computer Science and Engineering*

Relevant courses: Data Structures and Algorithm, Database Management Systems, Software Engineering, Computer Networks, Artificial Intelligence.

## SKILLS

*Programming Languages:* C, C++, Java, LabView, SQL, C#, .NET, python

*Technologies:* RESTful APIs, S3, Load Balancer, Apache Thrift, Kafka, RabbitMQ, Redis, Memcached, Gtest/Gmock, MySQL, Cassandra, Postgres, CI/CD, XML, SPARQL

*Software / Tools:* Jenkins, SVN, Perforce, Visual Studio, GitHub, Azure DevOps, Linux, Unix

## PROFESSIONAL EXPERIENCE

**National Instruments**, Bangalore, India

May18-Aug21

*Software Engineer II at RFmx Attribute Engine*

- Developed **low latent** and **scalable** list mode features for **5G/NR** in C++, processed **1000 RF** (Radio frequency) attr/sec
- Set up **Gtest/Gmock** infrastructure for automated test system and adopted TDD approach; decreased bug rate by **20%**
- Refactored the product into **modular** and **extendable** architecture based on industry-level conventions and patterns
- Oversaw the **recruitment** and **designing** of training materials for the new talents; reduced the onboarding time by **50%**

*Software Engineer II at RFmx SFP*

- Designed Low-level Design (**LLD**) and developed feature to support **5G/NR** and TD-SCDMA using C#, MVVM, helped scientists and researchers in signal generation and analysis for cellular test applications.
- Collaborated with a cross-functional agile team of software engineers on the **planning, designing, and development**
- Debugged application and implemented code fixes, which increased the **reliability**

**Huawei India R&D**, Bangalore, India

Aug16-May18

*Software Engineer at uTraffic (Network Management System)*

- Designed and developed collector microservice in C++ that collects data from different Network elements such as router, switches, and stored in **MySQL database**
- Resolved around **140** issues across the product produced by static and dynamic analysis tool

*Software Engineer at SNE Middleware platform*

- Independently fixed PCLint issue, memory leaks using **gdb**; reduced memory footprint spike from **2KB/sec** to **1.5KB/sec**
- Independently Built "503 response" in distributed architecture; made it a user-friendly system
- Developed an algorithm for auto-increment index using **JAVA** that enabled **330** customers to track their records
- Implemented the statistics in the load balancer, helped the **300** customers to analyze the flow of requests and responses

## PROJECTS

**Movie recommendation (Java, Spring boot, React.js, Sparql, Fuseki server, AWS EC2)**

Aug21-Dec21

- Recommending movie based on user's highest rated movie, movies watched by alike user's and popular movies
- Designed and developed a distributed architecture where dataset is hosted in 3 EC2 instances.

**Soccer Tournament Management (python, Flask, React.js, Postgres, REST API)**

Aug21-Dec21

- Developed a website which manages 700 Soccer teams. Features we have developed are team registration, scheduling between teams, referee scheduling for the teams and displays scores.