

# ANSHUMAN NAYAK

Software Engineer

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[Linkedin](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

### IIT Kharagpur

Master of Technology Agricultural Systems and Management

CGPA: 9.51

Kharagpur, India

July 2020 - May 2022

### Orissa University of Agriculture and Technology

Bachelor of Technology Agricultural Engineering

CGPA: 8.50

Bhubaneswar, India

July 2016 - July 2020

## EXPERIENCE

### Carelon Global Solutions LLP | Software Engineer

Gurugram, India | Jul 2022 - Present

- Spearheaded the development of a low-code platform for the Data API Gateway.
- Achieved a remarkable reduction in future development time from 14 days to just 2 hours by implementing standardized templates.
- Engineered and conceptualized the core architecture enabling fault tolerance, on-the-fly onboarding, and load-based scalability.
- Successfully supported over 2000 data scientists and facilitated the utilization of the application in more than 5 consumer-facing applications.
- Maintained comprehensive records of the development lifecycle for diverse data models.
- Devised and deployed 5 cron-based alert systems for product owners and deployment leads.
- Managed and rectified model development pipelines utilized by 10+ consumer-facing teams within the organization.

### NexVerse Pvt. Ltd. | Freelancer

Bhubaneswar, India | Jan 2019 - Mar 2022

- Developed Cordova-based hybrid social media app UI.
- Utilized Node.js for backend; MongoDB for primary database.
- Integrated Push Notifications, InApp Messaging, A/B Testing, Analytics.
- Optimized video processing for superior user experience.
- Supported 8000+ users and 15+ businesses.
- Implemented AWS EC2 autoscaling.

## SKILLS

Programming Languages: Python, JavaScript, C

Libraries/Frameworks: Node JS, Express, React, Next JS, Flask, GraphQL, TypeScript, OpenCV, TensorFlow, HTML 5, CSS 3, Ionic

Tools / Platforms: AWS, Docker, Git, Jira, NgInx

Databases: MySQL, MongoDB, Firebase, Snowflake

## PROJECTS / OPEN-SOURCE

### Mobile camera based plant disease detector | [Link](#)

JavaScript, Python, WebAssembly

- Produced an app for identifying plant diseases via photos.
- Designed for online/offline use, especially advantageous for Indian farmers.
- Employed TensorFlow.js and OpenCV.js for Deep Learning.
- Established Flask/Python ML pipeline for hosting and updates.
- Constructed UI with Ionic and React JS.
- Idea published in Elsevier's Smart Agricultural Technology Journal.

### Next Generation Sports Battle

Cordova, NodeJS, MongoDB

- Created an app connecting sports enthusiasts for challenges.
- Cordova with WebRTC powers frontend; Node.js, Express, GraphQL backend.
- Real-time data via GraphQL subscriptions.

- Utilized RethinkDB and MongoDB as databases.
- Successfully tested with 20,000 users in 2019.
- Hosted on AWS-OCP for seamless performance.

## CERTIFICATIONS

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- Data Analytics with Python - **NPTEL**
- Responsive Web Design - **freeCodeCamp**
- Financial And Social Inclusion - **University of waikato**
- GIS and Its application with Python - NAHEP.
- GraphQL Developer - Associate - **Apollo GraphQL**
- JavaScript Algorithms and Data Structures - **freeCodeCamp**

## HONORS & AWARDS

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Achieved Silver Elite Award in Data Analytics from IIT Roorkee.

Recognized Scholar in Digital Agricultural Technology by GSA, Kyoto Japan.

Attained All India Rank 67 in GATE 2020.

Holds patent for smartphone tech detecting Nitrate and Phosphate in water and soil.