

Sudhir Kumar K

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Passport: Z3626148 (Expiry: 20-05-2026)

GitHub: <https://github.com/Sudhir-Kumar-K>

Professional Summary

- Total 3 years of working experience as Computer Science professional.
- Currently working as **software developer at Spectraforce Technologies India Pvt. Ltd**, Hyderabad and having around 1 year of working experience in **MEAN stack deveopment**.
- Being a web developer, responsible for converting designs from SRS documents into responsive web pages using HTML 5, CSS3, Bootstrap, JQuery, writing Node JS APIs to communicate with mongoDB, consuming those API's using Angular JS and also for writing solr queries for full text search.
- Having experience of using bitbucket as version control, Jira as bug tracker, goto meeting, zoom, skype for on demand team communications.
- Having 2 years of experience as **research scholar at CET, Bhubaneswar**.
- Being a research scholar, worked in the field of image processing using Matlab and published research papers and also conducted classes for BTech students on data structures and programming languages (C, C++)

Experience profile

Organization	Designation	From	To
Spectraforce Technologies India Pvt. Ltd, Hyderabad	Software engineer (MEAN stack developer)	June-2016	Till date
CET, Bhubaneswar, India	Research scholar	Dec-2013	Feb-2016

Project Summary

Title : RTI Enterprise Search
Client : RTI international (<https://www.rti.org/>)
Team Size : 15
Role : JavaScript Developer
Duration : July 2016 to till date
Technology Stack : HTML 5, CSS3, Bootstrap, Angular JS, Node Js, MongoDB, Apache Solr, HDFS, Spark, Jenkin, Bitbucket, Jira.

Brief Description:

RTI international is an independent non-profit research institute spread over 25 locations around the globe. This client currently having search facility for published research articles. Our RTI Enterprise Search application provides a unified search solution backed by big-data platform to not only their research articles but also to their clients, projects and employees info.

Challenge:

The data sources of the client are not only located in diversified locations but also implemented in diversified technologies (like publications are from pure, internal employee details are in MongoDB format and so on). So it's a really big challenge to bright all of them under single roof without compromising the search platform.

Benefits:

Our application is providing super-fast search platform for the entire client's information from different data sources. We are using Apache solr (index files are being stored in HDFS) to enable high speed full text search, using NodeJS to communicate with their RDBMS components, planning to include spark for in-memory computations, Using Angular JS, HTML 5, CSS3, JQuery to provide lightweight , responsive web application.

Roles and contributions:

- Converted designs into static web pages using HTML5, CSS3, Bootstrap, JQuery.
- Converted project POC from angular 1 to angular 2 to improve its robustness and speed.
- Incorporated latest technologies like webpack module bundler, typescript, CSS autoprefixer, TSLint, Microsoft VS code etc. into the development process.
- Writing Node JS APIs to communicate with MongoDB.
- Writing Angular JS code to consume the APIs
- Writing queries for Apache solr and taking active parts in configuration changes to fetch research articles faster.
- Discussing with team manager and technical director for application improvement.
- Using Bitbucket as version control.
- Using Jira as bug tracker.
- Involved in daily scrum calls and weekly client meeting.

Education

2013- 2015	M-Tech [Computer Science & Engineering] College of Engineering & Technology (CET), Bhubaneswar Govt. of Odisha, India CGPA 9.02
2010 - 2013	Master of Computer Applications (MCA) Gayatri Institute of Computer & Management Studies (GICMS), Gunupur Odisha, India CGPA 8.59
2007 - 2010	Bachelor of Computer Applications (BCA) Gayatri Institute of Computer & Management Studies (GICMS), Gunupur Odisha, India Percentage 82.1

Achievements

State Topper: Secured state 1st rank (un-reserved) in OJEE post graduate admission test (PGAT), Odisha.
Trainee at IISc, Bangalore: Selected as junior system administrator trainee at Indian Institute of Science (IISc), Bangalore.

Skill Set

Programming Languages	JavaScript (ES5, ES2015, ES2016) , TypeScript, C, C++, Matlab, Core Java
Client side technology	Angular JS (1 & 2)
Server side technology	Node JS
Search platform	Apache Solr 4.2
Database	MongoDB, My Sql
Big data	Having knowledge in Hadoop (Pig, Hive, Map Reduce)
Theoretical Computer Science	Data Structures and Algorithms

Research Works

2015, November	Paper Title : “Double AES Framework based on Mode selection” Tools Used : Matlab12 Submitted at : IJERCE Status : Published Link : http://ijercse.com/volume2_issue9.php
2015, September	Paper Title : “Estimation of Fractal Dimension of Images using Improved Differential Box Counting (IDBC) method” Tools Used : Matlab12 Submitted at : CET, Bhubaneswar Status : Review completed & Accepted

Personal Details

Passport	: Z3626148 (Expiry: 20-05-2026)
Father's Name	: K. Tirupati Rao
Mother's Name	: K. Rajani
Date of Birth	: 20 th April 1990
Gender	: Male
Marital Status	: Single
Nationality	: Indian
Languages Speak	: English, Hindi, Telugu, Oriya
Hobbies	: Listening music, Internet surfing, Playing computer games, Playing carrom

Declaration

I Sudhir Kumar K hereby declare that the above written particulars are true to the best of my knowledge and belief. I will be solely responsible for any deviation in the above given information.

Date : May 10, 2017

Place : Hyderabad, India

Sudhir Kumar K