

# Dr. KOUSHIK S

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(B.E, M.Tech., Ph.D.)

## Objective

To look for a challenging position in Cloud Computing where my problem-solving skills and research aptitude would be best used for the successful execution of projects. I am also looking forward to using my logical and analytical experience in Cloud Computing to add value in making critical decisions for relevant projects.

## Highlights

- Strong ability to gather, analyze, and interpret business and technical requirements
- Published 9+ research papers and 2 book chapters, demonstrating expertise in technical and academic research
- Proficient in website design, development, and content creation.
- Experienced in developing and maintaining scalable applications.
- Strong knowledge of Java, Struts 2, Spring Framework, Hibernate, and Cloud Computing.
- Designed and developed the Co-Win Vaccination Booking and Tracking Application.
- Quick learner with the ability to adapt to new technologies and work collaboratively.
- Strong analytical skills, problem-solving mindset, and commitment to continuous learning.

## Professional Preface

- 14+ years of combined experience in academia and industry.
- 9+ years as an Assistant Professor in the Department of Information Science and Engineering at M S Ramaiah Institute of Technology.
- 8+ years of industry experience in website design, Core Java application development, maintenance, and content development.
- Strong foundation in Java, J2EE, C++, Web Technologies, Data Structures, Cloud Computing, Distributed Computing, Microcontrollers, Engineering Design, Operating Systems, and Java frameworks like Struts 2, Hibernate.
- Proficient in MySQL with hands-on experience in database management.
- Designed and developed multiple applications from scratch using Java, J2EE, Struts 2, and Hibernate.

## Technical Skills

<b>Core Technologies</b>	Core Java, J2EE, SQL and relational databases
<b>Web Technologies</b>	Servlets, JSPs, HTML, JSON, CSS, jQuery
<b>Cloud</b>	AWS (S3, EC2 and CloudFront), Azure
<b>Databases</b>	MySQL, Oracle, SQL Server
<b>Application Frameworks</b>	Struts2.5, Hibernate 5, Spring, Spring Boot
<b>Application Server</b>	Apache Tomcat, WildFly
<b>Operating System</b>	Windows X, Linux (Ubuntu, Fedora)
<b>Tools</b>	JIRA, BitBucket, Git, SVN, Maven, Postman
<b>Programming Languages</b>	Java, JavaScript, Python, R
<b>IDE</b>	Visual Studio, Visual Studio Code, Eclipse, IntelliJ

<b>Other Skills</b>	IT Services, Website Design and development, Rest API, Webservices, Application Development
<b>Documentation Tools</b>	Latex, MS-Office tools

## Achievements

- Best paper award in IEEE CONECCT 2021 for “Using InterCloudFramework to migrate application and data between two public clouds”.
- Organized more than ten workshops.
- Co-organized two conferences.
- Completed nine research papers and two book chapter.
- Awarded “Best outgoing student of the year 2012” in M. Tech, Department of Computer Science and Engineering, M. S. Ramaiah Institute of Technology, Bangalore.

## Work Experience and Responsibilities

### VIS Networks

**Project Name:** LDAP and OAuth 2.0 Integration, MySQL Custom Library Migration

**Duration:** Nov 2024 – Mar 2025

**Designation:** Technical Lead

**Responsibilities:**

- Technical Lead for multiple projects.
- Designing, Developing and Testing of use cases
- API development for LDAP and OAuth flows

### Tata nexarc Limited

**Project Name:** Tata nexarc Orchestration Platform

**Duration:** Feb 2022 – Oct 2024

**Experience:** 1 year 3 months as Hotfix Release and Company Integration Lead

**Responsibilities:**

- Plan and execute the Hotfix release every Friday without fail.
- Handle regular stand-up calls and take team updates
- SPOC for Company Integration activities
- Management of CRM tickets and maintaining a zero queue
- Manage Hotfix Team
- API development for user profile updation
- API development for business registration using GSTIN API
- API development for business bank details
- API development for third-party Integration like AiSensy, LeadsquaredCRM

### M. S. Ramaiah Institute of Technology

**Role:** Assistant Professor

**Duration:** Sep 2012 - Nov 2021

**Experience:** 9 years 3 months

- **Project Name:** Co-Win Vaccination Track and Book Application for M. S. Ramaiah Hospital
  - **Experience:** 1 month
  - **Responsibilities:** Requirement collection and designing of applications for Covid-19 vaccination appointment tracking and booking. Specifically designed for the M. S. Ramaiah Memorial Hospital with four portals- Management, Staff, corporate, Admin and walk-ins.
- **Project Name:** Data Analytics and Monitoring dashboard for HeartRescueIndia in collaboration with M. S. Ramaiah Memorial Hospital.
  - **Experience:** 3 months
  - **Responsibilities:** Requirement collection and designing of applications for HeartRescueIndia dashboard for Heart dataset. Specifically designed for the M. S. Ramaiah Memorial Hospital.
- **Project Name:** NAAC accreditation portal for M. S. Ramaiah Memorial Hospital.
  - **Experience:** 3 months
  - **Responsibilities:** Requirement collection and designing of applications for NAAC accreditation software. Specifically designed for the M. S. Ramaiah Memorial Hospital.

- **Project Name:** Website of M. S. Ramaiah Institute of Technology
  - **Experience:** 8 years
  - **Responsibilities:** Design, development, and maintain the official website of M. S. Ramaiah Institute of Technology with regular updates.
  - Currently working for eight years six months as an Assistant Professor in the Department of Information Science and Engineering and have carried out different responsibilities during my tenure.

**Overall Responsibilities:**

- Teaching subjects like Basic and Advanced Java with J2EE, Object-Oriented Programming with C++, Web Technologies, Data Structures, Cloud Computing, Distributed Computing, Microcontrollers, Engineering Design, and Operating Systems.
- Deputy Coordinator for the Department of IT Services
- A college-level representative for the Student Information Systems portal
- Coordinator of Website Design and Development
- Member at Alumni Association, Graduation and Induction Program Committee
- Department level Website coordinator
- Department level coordinator for Student Information Systems portal and Student Forum
- Department level member in NBA Committee, NAAC, NIRF and IQAC Committee

## Unisys Global Services India

**Project Name:** Operations Sentinel for Consolidated Specialty Engine

**Role:** Intern

**Duration:** Oct 2011 - Jun 2012

**Experience:** 9 months

**Responsibilities:** Designing forms, backend coding, testing of module and preparation of HLD and LLD and final report. This project was a part of my academic project.

## Mayflower Language Services Pvt. Ltd

**Project Name:** Quotations

**Role:** Project Manager for Quotations

**Duration:** Jan 2010 - Sep 2010

**Experience:** 8 months as “Associate Project Coordinator Quotations”

**Responsibilities:** Receiving files sent by the client from the sales team and calculating the price of the project by communicating internally with all the other teams involved in the project and sending the quotation to the client through the sales team. Sending out exec emails to the project managers and getting the project executed in due time.

## ASL Advanced Systems Pvt. Ltd

**Project Name:** Navigation System for a PDA

**Role:** Intern

**Duration:** Jun 2008 - Dec 2008

**Experience:** 6 months as “Associate Project Coordinator Quotations”

**Responsibilities:** Designing a project’s database and front end (GUI). Report generation: Software Requirements Specification, Design Document and Final.

## Publication Details

1. Dr. Koushik S, and Chaitra M, Secure Communication in Internet of Things - Secure Operating Systems and Software, *CRC Press, 2024* (Book Chapter)
2. Koushik S., and Dr. Annapurna P. Patil.” Ranking Preferences Using Haversine and Spotis: A Hybrid Model for Nearest Service Discovery to Enable Interoperability among Heterogeneous Clouds with Trusted Meta-broker”, *Advanced Engineering Science AES* vol. 54, issue. 2: AES-17-11-2022-449
3. Koushik S, Dr Annapurna P. Patil and Suma C S, Using InterCloudFramework to migrate application and data between two public clouds, *IEEE CONECCT 2021*.
4. Koushik S, and Dr. Annapurna P. Patil, Adaptive Content Planning and Delivery with assessment methodology using Swarm Intelligence on Cloud Computing, *IGI Global* (Book Chapter)
5. Koushik S., and Dr. Annapurna P. Patil.” An Approach to Ensure Secure Inter-Cloud Data and Application Migration Using End-to-End Encryption and Content Verification”.*IJACI* vol. 13, no. 1 2022: pp.1-21. <http://doi.org/10.4018/IJACI.293148>.
6. Koushik S, and Dr Annapurna P. Patil, Exploring Live Cloud Migration on Amazon S3 Instance Using InterCloudFramework, *ICACCP 2021*, SMIT. Sikkim

7. Supriya, P., & Koushik, S. Information Upload and retrieval using SP Theory of Intelligence, *International Journal of Advanced Engineering, Management and Science*, 2(5), 239429.
8. Dr Annapurna P. Patil Shashikala Gudimani, Koushik S, SLA Based Brokerage For Multicloud Migration, *International Journal of Innovations & Advancement in Computer Science*, 6(8)
9. Koushik, S., & Patil, A. P. (2014). Open security system for cloud architecture. In *ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of Computer Society of India- Vol I* (pp. 467-471). Springer, Cham. [https://doi.org/10.1007/978-3-319-03107-1\\_51](https://doi.org/10.1007/978-3-319-03107-1_51)
10. Koushik S., Selvarani R. (2012). Review on Cost Effective Software Engineering Using Program Slicing Techniques. In: Satapathy S.C., Avadhani P.S., Abraham A. (eds) *Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (INDIA 2012)* held in Visakhapatnam, India, January 2012. *Advances in Intelligent and Soft Computing*, vol 132. Springer, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-27443-5\\_73](https://doi.org/10.1007/978-3-642-27443-5_73)

## Project Details

- Heart disease monitoring and dashboard system using R-Studio and Shinyapps for M. S. Ramaiah Memorial Hospital - Heart Rescue India
- Covid vaccination appointment booking app for M. S. Ramaiah Memorial Hospital using VueJS and FireBase.
- NAAC accreditation portal for M. S. Ramaiah Memorial Hospital
- Designed, developed and maintained M. S. Ramaiah Institute of Technology's official website as part of Deputy IT coordinator at M. S. Ramaiah Institute of Technology.
- Numerous student projects related to various technology in multiple domains.

## Academic Details

- Ph.D. in Computer Science and Engineering from MSRIT, VTU, Bangalore – India.
- MTech in Computer Science and Engineering from MSRIT, VTU, Bangalore – India.
- B.E in Computer Science and Engineering from SJCIT, VTU, Bangalore – India.

## Personal Details

- Date of Birth: 28<sup>th</sup> October 1985
- Languages: English, Kannada, Telugu and Hindi
- ORCID: <https://orcid.org/0000-0003-0309-0497>
- LinkedIn: [www.linkedin.com/in/koushik-shankaranarayana](http://www.linkedin.com/in/koushik-shankaranarayana)

## Declarations

I hereby declare that the above information is accurate to the best of my knowledge. I bear the responsibility for the correctness of those mentioned above.

Place: Bengaluru, India

Dr. Koushik S