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Krishnan MN

Profile

- Assistant Professor at Ahalia School of Engineering and Technology, Palakkad in the Department of Computer Science and Engineering
- Assistant Professor at Nirmala College of Engineering, Meloor, Chalakkudi in the Department of Artificial Intelligence & Data Science Department
- Software Developer in IBM India Pvt Ltd. Implementing back-end services to improve or update existing features and implement new features based on the requirements defined by the product managers.
- Lead – 1 Software Engineer in UST Global as a React developer. Implementing the front-end mock-ups created by the design team and integrating the functionalities with existing application. Conduct unit tests using Jest.
- Senior Software Engineer in the iBISS solution for On-Site Plants in the Broadband Domain. Actively involved in customizing the iBISS to implement the customer-specific requirements.
- Staff Software Engineer for Smarter Cities Solutions. Actively involved in customization of IBM Intelligent Operations Centre and IBM Intelligent Operations for Transportation to satisfy various customer requirements.
- 12 years of development experience with Java, J2EE, Dojo, HTML, JavaScript, JSON, RESTful web services using Spring, Hibernate, JAX-WS, etc.
- 2 years of development experience in React
- I was a key member in developing the travel time intelligent asset for IBM Intelligent Operations for Transportation.
- 11 years of academic experience as a Computer Science Faculty, led various software development projects with students

Skills

- **Development Skills:** Development experience in Java, J2EE and Restful Web Services spanning over 12 years.
- **RDBMS Skills:** Design and manage DB based on DB2, Postgres and Oracle.
- **NO SQL:** Mongo DB
- **UI Skills:** Development of portals using HTML, JavaScript, React.
- **Other Skills:** IBM Websphere Application Server, Tomcat Server, AWS cloud, Micro services, Springboot
- **Solution Skills:** IBM Intelligent Operations Centre, IBM Intelligent Operations for Transportation, IBM Turbonomics

Employment History

- Assistant Professor CSE Department, Ahalia School of Engineering and Technology, Palakkad (From June 2026 onwards)
- Assistant Professor AI & DS Department, Nirmala College of Engineering, Meloor, Chalakkudy (From December 2025 May 2026)
- Software Developer, IBM India Pvt Ltd (April 2024 to September 2025)
- Lead -1 Software Engineer, UST Global, Kochi (July 2021 to April 2024)
- Software Engineer in Immco Software Solutions, Cochin Special Economic Zone, Kakkanad, Kochi(June 2016 to July 2021)
- Software Developer & Application Consultant, Industries Solutions, IBM India Pvt Ltd (May 2013 to May 2016)
- Faculty in Computer Science, Bhavan's College, Andheri(W), Mumbai (Jun 2000 to July 2011)

Education

- Master in Technology IT (Networking) – 2013,9.26 CGPA, VIT University Vellore, Tamil Nadu, India
- Master in Computer Science – 2008,57.4%, University of Mumbai, India
- Bachelor of Computer Applications – 2005, 77%, Tilak Maharashtra Vidyapeeth, Pune, India
- Diploma in Computer Engineering – 1997, 71%, Kerala Technical Education Board, Kerala, India
- THSLC (10th) – Electronics – 1993, 74.2%, Kerala Technical Education Board, Kerala, India

Professional Experience

From May 2026, Ahalia School of Engineering and Technology, Palakkad

Position : Assistant Professor, Department of Computer Science and Engineering

Start Date : 1st June 2026

Role : Teaching theory and conduct practical sessions

Role Description

Conduct lectures and practical sessions based on the syllabus prescribed by the Kerala Technological University. Also guiding two project teams in their second phase of the project.

Responsibilities

Conducts lectures for multiple semesters of department. Create ppt for the topics to be delivered to the students on various subjects assigned. Create question pool for the subjects we are undertaking. Also create question paper for internal examination and to

evaluate the answer sheets. Also engaged in setup and the softwares required for the practical sessions. Creating details of lap experiments to be performed for the assigned lab sessions.

Subjects Undertaken

Machine Learning (PCCST503) and Machine Learning La (PCCSL508)

From December 2025, Nirmala College of Engineering, Meloor, Chalakkudy

Position : Assistant Professor, Department of Artificial Intelligence and Data Science

Start Date : 1st December 2025

End Date : 26 May 2026

Role : Teaching theory and conduct practical sessions

Role Description

Conduct lectures and practical sessions based on the syllabus prescribed by the Kerala Technological University. Also guiding two project teams in their second phase of the project.

Responsibilities

Conducts lectures for multiple semesters of department. Create ppt for the topics to be delivered to the students on various subjects assigned. Create question pool for the subjects we are undertaking. Also create question paper for internal examination and to evaluate the answer sheets. Also engaged in setup and the softwares required for the practical sessions. Creating details of lap experiments to be performed for the assigned lab sessions.

Subjects Undertaken

Concepts of Big Data Analytics (ADT-302), Big Data Analytics Lab (ADL-332), Computer Organization and Architecture (PBCST404) and Foundation of Computing from Hardware Essentials to Web Design (GXEST203)

From April 2025, IBM India Pvt Ltd, Kochi

Position : Software Developer

Start Date : 30th April 2024

End Date : 11th September 2025

Role : Full Stack Developer

Role Description

Create stories in Jira, analyze the implementation challenges, and implement them based on the descriptions given by Architects and other stakeholders. The product is a hybrid cloud implementation.

Technologies Used: Java, Springboot, Microservices, Spring security, React, Jest, Cypress, Junit, Mockito, Docker, Kubernetes, Jenkins, GIT

Responsibilities

- React Front End Developer
 - Connect with design team to finalize the Figma designs
 - Implement the designs created in Figma in React
 - Write test cases using jest and cypress
- Java Back End Developer
 - Create stories in Jira
 - Analyse them and identify the challenges, and provide possible solutions to overcome them
 - Implement the solutions in Java
 - Write Junit test cases for functional testing
 - Write test cases for deployment testing in Python
 - Deploy the code and test it

From July 2021 to April 2024, UST Global, Kochi

Position : Lead – 1 Software Engineer

Start Date : 12th July 2021

End Date : 25th April 2024

Role: : Lead 1 Software Engineering (Front End)

Role Description

Implementing the UI mockups created by the design team and integrating the same with the application. The client for which the project was involved is a fintech client.

Technologies Used: React, Jest, Cypress, HTML, CSS, Redux, Jenkins, GIT

Responsibilities

- UI Developer React
 - Implementation of UI in react based on the mockups designed by the UX team
 - Implement the functionalities based on the user stories
 - Conduct unit tests using Jest and Cypress
 - Build the code using already defined Jenkins pipe lines
 - Merge with the master branch on successful build and reviews

From Jun 2016 to July 2021 , Immco Software Solution, Kakkanad, Kochi, Kerala, India

Position : Software Engineer

Start Date : 06th Jun 2016

End Date : 09th July 2021

Role : Senior Software Developer

Role Description

Developing mobile and desktop solutions based on GIS for CATV clients in USA.

Technologies Used: Java, Springboot, Microservices, Spring security, AWS, JIRA, Jenkins, Junit

Responsibilities

- Software Developer, Mapzilla Mobile using java script for front end and Java, Springboot and microservices architecture for backend
 - Development of valuable solutions on top Immco Mapzilla application for CATV domain.
 - Design and implement both front end and back end solutions compatible for both android and iOS based mobile devices.
 - Define enhancements suggested by client after being reviewed by the client.
 - Define additional RESTful services required by the new features
- Software Developer, Mapzilla using java script for front end and Java, Springboot and microservices architecture for backend
 - Development of valuable solutions on top Immco Mapzilla application for CATV domain.
 - Design and implement both front end and back end solutions for both PC and Mac based devices.
 - Define enhancements suggested by client after being reviewed by the client.
 - Define additional RESTful services required by the new features.

From May 2013 to May 2016, IBM India Pvt Ltd., Bangalore, India

Position : Software Developer & Application Consultant

Start Date : 07th May 2013

End Date : 12th May 2016

Role : Software Developer

Role Description

Developing customized solutions based on IBM Intelligent Operations Center and IBM Intelligent Operations for Transportation. Interacts with the clients to identify their needs and issues and provides industry standard solutions.

Technologies Used: Java, Restful API, JSON, Junit, Websphere Application Server, Tomcat

Responsibilities

- Software Developer, Industries Solution.
 - Development of valuable solutions on top of IBM Intelligent Operations Center
 - Design and implement additional portals on top of IBM Intelligent Operations for Transportation to enhance the solutions to suite the requirements of the client.
 - Define custom features in IBM Intelligent Operations Centers as per the requirements of the client
 - Define and implement data model for customized solutions.
 - Define additional RESTful services required by the new features
- Application consultant for Industries Solutions
 - Engage with the clients and business partners to understand the requirements.
 - Development of solutions based on the request.
 - Solve the issues faced by clients and business partners.
 - Key Clients with which I am involved Lodha, Adani Ports, Metro Infra-systems(India), Yaara Trams (Australia), Singapore Land Transport Authority(Singapore)

Achievements

- Developed an asset on top of IBM Intelligent Operations for Transportation to enhance the feature of Travel Time Intelligence.
- The same is submitted as a disclosure and rated as PUBLISH.

From June 2000 to July 2011, Bhavan's College Andheri (W), Mumbai, India

Position : Faculty of Computer Science, Maharashtra State Board for Secondary and Higher Secondary Education.

Start Date : 19th Jun 2000

End Date : 11th July 2011

Role : Faculty Computer Science

Role Description

As a computer science faculty I was responsible for conducting lectures and lab sessions as per the

Maharashtra State Board of Secondary and Higher Secondary Education. I was a consistent member of evaluation team for the Computer Science paper – II (Microprocessor) by the board.

Responsibilities

- Conducting Lectures for as per the board syllabus.
- The topics covered were C++, HTML, VB, Java, Java Script, VB Script, Data Structures, 8085 Microprocessor.
- Conducting Lab sessions based on the above mentioned topics.
- Evaluating the board examination papers of Microprocessor.

Achievements

- Students from computer science department of our college ranked in top 5 in the state wide merit list of 12th examination in a consistent basis.
- Consistently 30% our students were getting full marks during the board practical examinations.

Projects Undertaken

- **Detection of DDoS Attack**
 - Software used: Wireshark, Java 1.5 and Ms Excel 2007
 - Aim: To device an efficient methodology to detect the DDoS attack.
 - Wireshark is used to capture the packet and Java to do further implementation of project.
 - Ms Excel is used to generate the graphs for the values we have got from java to gain a more convenient way of comparisons.
- **Deadlock-free Routing Algorithm for Torus Networks**
 - Software used: Java 1.5 and NS-2
 - Aim: To device an algorithm for deadlock free routing for Torus Networks.
 - We have simulated the algorithm by using Java to show the routing process.
 - Analysis of results are done by using NS-2 simulator.
- **8085 Microprocessor Simulator**
 - Software Used : Microsoft Visual Basic 6.0
 - Aim: To simulate the 8085 microprocessor on computer
 - The project first reads the program in ALP from a file.
 - The same is parsed and the binary level program is generated
 - The program can then be executed and we can verify the results

- **Generating reports based on usage of telephone for various employees in an organization**
 - Software used: C++
 - Aim: Read the telephone usage details csv file and calculate the total usage of each of the employee and generate reports based on this
 - The project had an assumption that the csv files are available.
 - Using data structures separate the employee records and generate reports based on employee, daily, weekly and monthly reports

In total I have undertaken total 4 projects during my academic tenure - 2 java projects and 1 each in VB and C++.

Other Relevant Information

Publications

Krishnan M.N., Raghunath S., Ajith Pravin Dhas D., and Benny Raj A.M.,
M.Pounambal: **A Deadlock – Free Routing Algorithm for Torus Network**, in: Network and Complex Systems, www.iiste.org, 2012, ISBN/ISSN: 2225-0603