National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Curriculum Vitae

1. Name: Dr. Vinay Raj

2. Designation: Assistant Professor

3. Office Address: 308, Lyceum Block, Dept of CA, NIT Trichy

4. Telephone (Direct) (Optional):

    Telephone :   Extn (Optional):

    Mobile (Optional):   9963850192

5. Email (Primary): vinayraj@nitt.edu   Email (Secondary) :vinayrajlodh@gmail.com

6. Field(s) of Specialization: Software Engineering, Service Oriented Architecture, Microservices, Serverless Computing, Machine Learning

7.   Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Trichy	Sept 2022	Till Date
Assistant Professor	KITS Warangal	May 2022	August 2022
Assistant Professor	BVRIT Hyderabad College of Engineering for Women	April 2021	April 2022
Senior Software Engineer	Capgemini, Hyderabad	Feb 2016	July 2016
Systems Engineer	TCS, Hyderabad	March 2013	January 2016
IT Associate	AP Society for Knowledge Networks, Hyderabad	June 2012	Feb 2013

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PG Diploma	University of Hyderabad	2022	I Class	Artificial Intelligence & Machine Learning
Ph.D.	NIT Warangal	2021	-	Software Engineering
M.Tech	BITS Pilani (WILP)	2016	I Class	Software Systems

B.Tech	KITS Warangal, Kakatiya University	2012	I Class with Distinction	Computer Science and Engineering
Intermediate	Board of Intermediate Education, Andhra Pradesh	2008	A Grade	Maths, Physics & Chemistry (MPC)
SSC	Board of Secondary Education, Telangana	2006	First Division	-

9. Academic/Administrative Responsibilities within the University: NIL

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University: NIL

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2021	Young Researcher Award	I2OR, India
2015	On the Spot Award	TCS, Hyderabad
2014	Star of the Month	TCS, Hyderabad
2014	Best Team	TCS, Hyderabad

12. Fellowships:

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2008	National Merit Scholarship	MHRD	Sep 2008	April 2012

13. Details of Academic Work
   (i) Curriculum Development
   (ii) Courses taught at Postgraduate and Undergraduate levels
       - Mathematical Foundations for Data Analytics
   (iii) Projects guided at Postgraduate level
   (iv) Other contribution(s)

14. Details of Major R&D Projects: NIL

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided: NIL

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date(s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
28 June 2022	NEP-2020 Implementation Plan: OBE & ABC	National	Participant	UGC-HRDC, JNTU Hyderabad	Online
April-May 2022	Orientation towards Technical Education and Curriculum Aspects	National	Participant	NITTT (AICTE)	Online
Jan-Apr 2022	Problem Solving through Programming in C	National	Participant	NPTEL IIT Kharagpur	Online
6 to 14 July 2021	AI Applications in Software Engineering	National	Participant	E & ICT, NIT Warangal	Online
17 to 21 May 2021	Verilog Programming	National	Participant	NITTTR, Chennai	Online
19 to 23 April 2021	Machine Learning - Concepts and Applications	National	Participant	NIT Trichy	Online
9 to 12 March 2021	Data Analysis using Python	National	Participant	NIELIT Calicut	Online
Jan-Feb 2021	Python for Data Science	National	Participant	NPTEL IIT Madras	Online

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor) : NIL

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

18. Invited Talks delivered: NIL

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Membership	Indian Society for Technical Education (ISTE)	LM - 135262 12.07.2022

20. Academic Foreign Visits: NIL

Country	Duration of Visit	Programme

21. Publications

 (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page Nos	Year	Impact Factor of the Journal (Optional)
Vinay Raj, Sadam Ravichandra	A service graph based extraction of microservices from monolith services of SOA	Journal of Software: Practice and Experience	52	1661-1678	2022	3.200
Vinay Raj, Sadam Ravichandra	Patterns for migration of SOA based applications to microservices architecture	Journal of Web Engineering	20	1229-1246	2021	0.617

Vinay Raj, Sadam Ravichandra	Performance and complexity comparison of SOA and microservices architectures	International Journal of Communication Networks and Distributed Systems	27	100-117	2021	-
Vinay Raj, Sadam Ravichandra	A novel effort estimation approach for migration of SOA applications to microservices	Journal of Information Systems and Telecommunication	10	80-88	2022	-
Vinay Raj, Sadam Ravichandra	Evaluation of SOA-based web services and microservices architecture using complexity metrics	SN Computer Science	2	1-10	2021	-
Vinay Raj	Framework for Migration of SOA based Applications to Microservices Architecture	Journal of Computer Science & Technology	21	196-198	2021	-

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Vinay Raj, G Punnam Chander	Monitoring of Microservices Architecture based Applications using Process Mining	9th International Conference on Computing for Sustainable Global Development, IEEE	486-494	Software Engineering and Emerging Technologies	New Delhi, India	2022
Vinay Raj, Sadam Ravichandra	Enhanced Service Point Approach for Microservices Based Applications Using Machine Learning Techniques	International Conference on Advanced Informatics for Computing Research, Springer	78-90	Advanced Computing	Gurugram, Haryana, India	2022

Vinay Raj, K Srinivasa Reddy	Best Practices and Strategy for the Migration of SOA-Based Applications to Microservices Architecture	Second International Conference on Advances in Computer Engineering and Communication Systems	439-449	Cloud, IoT and Distributed Computing	Hyderabad, India	2022
Vinay Raj, S Ravichandra	Microservices : A perfect SOA based solution for Enterprise Applications compared to Web Services	3rd IEEE International Conference on recent trends in electronics, information & communication technology	1531-1536	ICT	Bengaluru, Inia	2018

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Amandeep Singh, Vinay Raj, Sadam Ravichandra	Part of Book Chapter: ICT Systems and Sustainability (Proceedings of ICT4SD 2021)	Springer	2022	978-981-16-5987-4