

R. RAJKUMAR

Assistant Professor | Doctoral Candidate | Innovation & Entrepreneurship Specialist

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PROFESSIONAL PROFILE

Accomplished Academician, Doctoral Researcher, and Master Innovation Ambassador with extensive expertise spanning engineering pedagogy, cybersecurity & network security research, and state-level leadership in entrepreneurship and incubation hubs. Currently serving as Assistant Professor at Raja Rajeswari College of Engineering, Bengaluru. Proven track record in managing campus innovation ecosystems for EDII-TN and Alagappa University, organizing state-wide hackathons, boot camps, and faculty development programs while delivering high-impact instruction in Computer Networks, Cybersecurity, and Software Architecture.

Core Focus Areas:

- Cybersecurity, IoT Security & Permissioned Blockchain Architectures
- Computer Networks, Cloud System Architecture & Network Simulation (NS-2)
- Innovation Hub Governance, Startup Mentorship & Incubation Ecosystems
- Engineering Pedagogy, Accreditation Initiatives & Faculty Development

PROFESSIONAL EXPERIENCE

Assistant Professor | *Department of Computer Science & Engineering — Raja Rajeswari College of Engineering, Bengaluru*
Sep 2022 – Present

- Deliver core undergraduate and postgraduate coursework in Computer Networks, Cybersecurity, and Software Systems.
- Mentor student innovation projects, guide research activities, and drive department-level accreditation initiatives.

Entrepreneurship Coordinator | *Innovation & Career Hub — Alagappa University, Karaikudi, Tamil Nadu*
Feb 2020 – Jun 2022

- Spearheaded cluster development and entrepreneurship awareness programs across Sivaganga district in collaboration with MSME and ICT Academy.
- Organized 20+ state-level webinars and online workshops featuring industry leaders, CEOs, and startup founders for over 2,000+ students and faculty.
- Facilitated institutional incubation activities, startup mentorship drives, and student ideation challenges under TANSIM and EDII schemes.

Field Coordinator | *EDII Tamil Nadu Regional Hubs — Anna University Regional Campus (Coimbatore) & Alagappa University*
Aug 2018 – Jan 2020

- Coordinated the Innovation & Entrepreneurship Development Programme (IEDP) of Govt. of Tamil Nadu across regional districts (Coimbatore, Salem, Erode, Pudukkottai, Dindigul).
- Executed 3-day Boot Camps, NEN E-Leader Workshops, Master Trainer Sessions, and Tamil Nadu Ilam Innovators Challenges (TNIIC).

Assistant Professor | *Department of Information Technology — Kalasalingam Institute of Technology, Krishnankoil*
Jul 2010 – Feb 2017

- Delivered courses in Computer Networks, Network Security, Software Architecture, and Cloud Systems for 6+ years.
- Served as Department Placement Coordinator (2012–2018) and Admission Coordinator (2017), driving student placement training and industry visits.
- Organized 7-Day Anna University FDTP on 'Software Architecture', National Level Technical Symposiums, and CISCO Networking Workshops.

Lecturer | *Department of Computer Science & Engineering — S. Veerasamy Chettiar College of Engineering and Technology*
Aug 2009 – Feb 2010

- Taught foundational computer science subjects and guided laboratory sessions for undergraduate engineering students.

EDUCATIONAL QUALIFICATIONS

Degree / Qualification	Specialization / Discipline	University / Institution	Status / Grade
Ph.D. (Ongoing)	CSE (IoT Security & Blockchain)	Sathyabama Institute of Science and Technology, Chennai	Pursuing
M.B.A.	Technology Management	Alagappa University, Karaikudi	Completed
M.Tech.	Networking (TIFAC-CORE Network Engg.)	Kalasalingam University, Krishnankoil	7.6 CGPA
B.Tech.	Information Technology	Arulmigu Kalasalingam College of Engg. (Anna Univ)	68.0%

TECHNICAL SKILLS & CERTIFICATIONS

Programming & Systems: C, C++, Java, Web Development (HTML/CSS), Linux/Unix, Windows Environment

Networking & Tools: Cisco Routers (2xxx) & Switches (17xx, 53xx), Network Simulator (NS-2.xx)

Professional Certifications: Certified Master Trainer – ILO (International Labour Organization)

IIC Innovation Ambassador (Foundation & Advanced Level)

Wipro Mission 10X Certified Educator

Academic Specializations: Cybersecurity, Computer Networks, IoT Security, Cloud Application Architecture, Entrepreneurship Development

RESEARCH & SCHOLARLY CONTRIBUTIONS

- High-Performance Federated Architectures for Time-Series Forecasting in Next-Generation Smart Grids- IEEE (IEEE Xplore)
- An Intelligent Bayesian Optimization with Stacked BiLSTM Model for Air Quality Index Prediction - IEEE (IEEE Xplore)
- A Novel Framework for Classifying Remote Sensing Images using Convolutional Neural Networks- IEEE (IEEE Xplore)
- International Conference: 'Secure Data Retrieval Based on Attribute-Based Encryption in Military Networks' – St. Michael College of Engineering and Technology.

- National Conference: 'Optimized Key Tree Management for Secure Multicast Communication' – Francis Xavier College of Engineering.
- National Conference: 'Energy Saving Service for Mobile Streaming Applications with Dynamic Backlight in Cloud' – St. Joseph College of Engineering.
- National Conference: 'Authentication Based on MAC for Public and Private Environment' – St. Joseph College of Engineering.
- National Conference: 'Role of IT in Knowledge Management' – S. Veerasamy Chettiar College of Engineering.

PATENT DETAILS

- Implementing AI techniques to analyze the futuristic trends in diabetic retinopathy
- Smart city waste management system using IOT, machine learning and WSN for solid waste
- Detect malware in cyber security by using AI and ML

PROFESSIONAL DEVELOPMENT & CAPACITY BUILDING-

- National Cyber Safety Summit: Participated in the National Cyber Safety and Security Standards Summit (National Cyber Safety Ltd, Chennai).
- Wipro Mission 10X: Completed intensive Mission 10X Program on Effective Teaching Methodologies (Kalasalingam University).
- DRDO Research Workshops: Attended DRDO-sponsored workshops on 'Recent Trends in Information Security' (Anna University Chennai & Sri Krishna College of Engineering).
- Faculty Development Programs (FDPs): Completed 1-week FDP on Theory of Computation (Madurai) and 2-day FDP on Internet of Things (Thiagarajar College of Engineering).
- Cloud Computing Workshop Coordinator: Coordinated 2-day workshop on Cloud Computing in association with IFC3 and IIT Bhubaneswar.

MEMBERSHIP

- Innovation Ambassador Training Program (Foundation & Advanced Level) – Institution Innovation Council (MOE)
- Master Trainer certified by International Labor Organization (ILO)
- Member of Evaluation Panel for Idea Pitching at Women Entrepreneurs Network
- Mentor for Startups – Tamil Nadu Startup & Innovation Mission