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Computer Science  
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## BIOSKETCH

Dr. G Priyalakshmi is a distinguished academician and a passionate researcher with expertise in both experimental and theoretical domains. Her work bridges the gap between fundamental concepts and practical applications, contributing significantly to advancements in his field. Since December 2024, she has been working as an Visiting Faculty in the Department of Computer Science, PSG Institute of Advanced Studies, Coimbatore. Her research area includes Software Engineering, Agile Development, Software Patterns, Software Reuse and Software Refactoring etc. She completed her post-graduate degree from Coimbatore Institute of Technology, India followed by the Doctor of Philosophy (Ph.D.) from Anna University in the area of Software Design.

### Educational Profile

- **Doctor of Philosophy (Ph.D.) in Computer Science**  
Year of Passing: 2019  
**Thesis title:** Empirical Evaluation of Non-Functional Properties of Software Ecosystems.  
Thesis Supervisor: Dr. R Nadarajan, Professor, Dean Placement  
PSG College of Technology, Coimbatore
- **Masters in Business Administration in Software Enterprise Management**  
Year of passing: 2011  
Anna University, Coimbatore
- **Masters in Computer Application**  
Year of passing: 1999  
Coimbatore Institute of Technology, Coimbatore
- **Bachelors in Computer Technology**  
Year of passing: 1996  
Coimbatore Institute of Technology, Coimbatore

### Positions Held

Dec 2024 – Present	Visting Faculty Department of Computer Science PSG Institute of Advanced Studies
Jan 2023 – Present	Director Sri Ethiraja Technologies

	Automating core business processes for manufacturing industries. Implementing SAP for customers, Basis consulting, SAP Upgradation from ECC to S4HANA.
Sep 2010 – Dec 2022	Assistant Professor Department of Applied Mathematics and Computational Sciences PSG College of Technology
Jun 2003 – Aug 2010	Lecturer Department of Applied Mathematics and Computational Sciences PSG College of Technology
Aug 2007 – Nov 2007	Systems Engineer Amrita Technologies ERP in-house Solutions
Dec 2001 – Jul 2002	Software Engineer Vyosoft DG Technologies Database Design, UI/UX design and testing for a client (Point Solutions)
Jun 1999 – Dec 2000	Assistant Systems Engineer Tata Consultancy Services Intranet Web Application for a client (Johnson & Johnson)

### **Research Areas:**

- Software Engineering
- Agile Development
- Software Patterns
- Software Refactoring
- Software Reuse

### **Publications**

1. Washizaki, H., Xia, T., Kamata, N., Fukazawa, Y., Kanuka, H., Yamaoto, D., Yoshino, M., Okubo, T., Ogata, S., Kaiya, H. and Kato, T., 2018, November. Taxonomy and literature survey of security pattern research. In 2018 IEEE conference on application, information and network security (AINS) (pp. 87-92). IEEE.
2. Washizaki, H., Xia, T., Kamata, N., Fukazawa, Y., Kanuka, H., Kato, T., Yoshino, M., Okubo, T., Ogata, S., Kaiya, H. and Hazeyama, A., 2021. Systematic Literature Review of Security Pattern Research. Information, 12(1), p.36.
3. Priyalakshmi, G. and Latha, R., 2018. Evaluation of software reusability based on coupling and cohesion. International Journal of Software Engineering and Knowledge Engineering, 28(10), pp.1455-1485.
4. Priyalakshmi, G., Nadarajan, R. and Anandhi, S., 2016. Software reuse with shuffler design pattern.
5. Priyalakshmi, G., Nithin, R. and Tharanitaran, N.M., 2022. Heuristic Approach to Sustainable Agile Development with Secure Indicators. In Intelligent Sustainable Systems (pp. 443-451). Springer, Singapore.
6. Priyalakshmi, G. and Nadarajan, R., 2019. Empirical evaluation of non functional properties of software ecosystems (Doctoral dissertation, Anna University).

7. Priyalakshmi, G., Nadarajan, R., Yoder, J.W., Arthi, S. and Jayashree, G., 2019. Impact of Shuffler Design Pattern on Software Quality. In Emerging Research in Computing, Information, Communication and Applications (pp. 365-386). Springer, Singapore.
8. Priyalakshmi, G., Nadarajan, R., Washizaki, H. and Sharma, S., 2017, March. Quality Assessment of a Job Portal System Designed Using Bout Design Pattern. In International Conference on Advanced Informatics for Computing Research (pp. 195-205). Springer, Singapore.
9. Priyalakshmi, G., V, RA, Alagu., 2023, Similarities between South Korea and Tamil Nadu: The Unknown Link, Shanlax International Journal of Arts, Science and Humanities, 11(2), p. 23.
10. Priyalakshmi, G., Alagu, V.R.A. and Bharathi, B., 2022, October. UML Modeling for Smart Light System (SLS) in Deserted Areas and Forests. In International Conference on Information and Communication Technology for Competitive Strategies (pp. 637-646). Singapore: Springer Nature Singapore.

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