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| **PROFILE** |

* Graduate Research Assistant in Human Interactions Design and Modeling Lab in Wright State University
* Graduate Teaching Assistant at Wright State University
* Experienced as a developer in SOA implemented middleware projects using Oracle Service Bus

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| **EDUCATION** |

**M.S. Industrial and Human Factors Engineering GPA – 3.71 / 4.0**

Wright State University, Dayton - Expected 2017

***Relevant Coursework****: Human Factors Engineering, Cognitive Systems Engineering, Cloud Computing, Design and Analysis of Engineering Experiments, Probability and Statistics for EGR, System Engineering and Analysis*

**B.E. Electronics and Instrumentation Engineering GPA – 8.43 / 10.0**

Anna University, Chennai, India – June 2012

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| **TECHNICAL SKILLS** | | | |
| * **Programming languages:** OSB, Xquery, XML, Python, R, Android programming * **App development:** MIT App Inventor | * **Testing tools**: SOAPUI * **Cloud technologies:** Amazon EC2 |
| * **UI design:** Axure, Balsamiq, InVision, Adobe Experience Design, HTML, CSS | * **Scripting languages:** Javascript, Pig Latin, Bash * **Web Services:** WSDL |
| * **Frameworks**: Spring MVC, Hadoop, Bootstrap | * **Web/Application Server:** Apache Tomcat, BEA Weblogic |
| * **Subversion:** Tortoise SVN | * **Data analysis:** JMP, Splunk |
| * **Database:** SQL, NoSQL | * **Tools:** Eclipse, Android Studio, JDeveloper |

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| **WORK EXPERIENCE** |

**Graduate Research Assistant at Wright State University, Dayton, OH**

* Conducted emergency response studies, which led to the development of an intuitive user interface for Incident Command System
  + Conducted tabletop exercise with different chiefs in the Incident Command System hierarchy. Created mock scenarios and recorded their response for different situations
  + Constructed decision trees with the obtained response and identified the major decision points to support the User Interface (UI) design
  + Defined semantic relationships in reports and sensor data to develop knowledge base
  + Created wireframes and mockups using **Axure** to demonstrate the effect of different scenarios on the UI
  + Currently involved in building a agent-based simulation model for a disaster scenario using C#
* Doing research studies on Tinnitus to develop an android application that can aid the patients to manage their tinnitus effectively
  + Developed an android app to aid distraction for tinnitus patients
  + Currently involved in research studies on Tinnitus and developing app prototypes for tinnitus management
* Developing research papers for publication based on research

**Graduate Teaching Assistant at Wright State University, Dayton, OH**

* Support with faculty research projects
  + Assisted the faculty in designing class projects for developing a user-centered mobile design
* Engage in literature searches
  + Completed literature review in the area of wearable technology. Research on using the wearable devices in petrochemical industries for alarm notifications or any alerts for improving operator safety
* Contribute to the development of appropriate teaching materials to ensure content and methods of delivery meet learning objectives
  + Assisted the faculty for Human Factors in Mobile Computing and Human-System Interaction and Usability Engineering coursework

**Systems Engineer at TATA Consultancy Services Ltd., Chennai, India [Feb 2013 – Aug 2015]**

**Project:** *Enterprise Service Bus*

**Tools used:** *Tortoise SVN, SVN Integrated with Eclipse, Jakarta JMeter, MQ Utility Tool, HP Quality Centre, Oracle 10G SQL Developer, Oracle Service Bus Eclipse workshop, Altova XMLSpy, Splunk*

* Developed middleware applications with Oracle Service Bus (OSB)/ XQuery to route and transform XMLs
* Provided end-to-end support by interacting with the testers and clients through emails or calls to sort out issues that come up during testing
* Worked on industry standards like Automated Testing Framework, Performance Testing and Splunk for live log monitoring, data analysis, generating reports, alerts, and dashboards for real-time monitoring

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| **ACHIEVEMENTS** |

* Received On-The-Spot Award at TATA consultancy services Ltd. for best performance in software development and support activities
* Oracle WebLogic Server 11g: System Administration I certification

**PAPER PRESENTATION**

David Wood, **Meenakshi Nagarajan,** Alexandra Opp, Subhashini Ganapathy, Michelle Cheatham, John Gallagher, Jim Gruenberg, Jack Smith (2016) Using Model-Based Simulation for Augmenting Incident Command System for Disaster Response. International 2016 Winter Simulation Conference, Washington, D.C., December 2016.

**FUNDING**

Wright State University, Department of Industrial and Human Factors Engineering Merit Tuition Scholarship 01/2016-Present

Competitively awarded 100% tuition waiver based on academic performance