Vandit Agarwal

University of Michigan - Ann Arbor
Computer Science and Engineering

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Education

- M.S. Computer Science and Engineering   2016-present
  University of Michigan - Ann Arbor
- B.Tech Information Technology   2011-2015
  Manipal Institute of Technology, Manipal University
  - Cumulative Performance Index (CPI) of 8.80 (on a scale of 10) - **Ranked 3rd out of 131**

Technical Languages

Python, C++, C, C#, Java, MySQL, Embedded C, HTML, CSS, JavaScript, VBScript

Publications

Vandit Agarwal, Mandhani Kushal and Dr. Preetham Kumar, **"An Improvised Frequent Pattern Tree Based Association Rule Mining Technique with MFI Algorithm and a Modified Header Table"**, published in "International Journal of Data Mining and Knowledge Management Process", March 2015.

Internships

- **IKA DATA, spol. s.r.o., Prague, Czech Republic - "Dynamic Filters for Data Consistency in Revit; Software for Data Compatibility between Archibus FM and Revit; Add-Ins for Revit"**
  Mentored by Mr. Milan Hampl, CEO, IKA DATA spol. s.r.o. (July 2015-October 2015)
  - Dynamic data retrieval from the Revit and Archibus databases to ensure data compatibility between the two.
  - Developed using API for Revit 2015, .Net Framework, XML, Oracle 11g and MSSQL.
  - Developed Add-Ins to meet specific requirements of client architects.
  - Work currently deployed and in commercial use.

- **Manipal Institute of Technology - "An Advanced Generalization Based Method to Ensure Privacy and Anti-Discrimination"**
  Mentored by Dr. Sanjay Singh, Associate Professor, Manipal Institute of Technology (February 2015-July 2015)
  - Research project to investigate the possibility to simultaneously provide data privacy and anti-discrimination
  - Implemented l-diversity algorithm with anti-discrimination using python, which is a new work.

- **AGH University of Science and Technology, Krakow, Poland - "Spray-Based Support for Scientific Web Services"**
  Mentored by Dr. Marian Bubak, Professor, AGH University of Science and Technology (June 2014-July 2014)
  - Research to implement Akka actors with REST provided by SPRAY to implement scientific web services.

- **Air India (IT Dept.) - "Automation of Daily Activity Report for System Administration of IT-MRO Project"**
  Mentored by Mrs. Mukta Khanna, Chief Manager, Air India (IT Dept.) (December 2013-January 2014)
  - Developed application using .Net Framework to better manage manuals for system administration.
  - Work currently commercially deployed.

- **Air India (IT Dept.) - "Automation of User ID Management for RAMCO Aviation Solutions"**
  Mentored by Mrs. Mukta Khanna, Chief Manager, Air India (IT Dept.) (June 2013-Aug 2013)
  - Automated the process of managing limited number of licences for the RAMCO software.
  - Work currently commercially deployed.

Other Projects

- Airline Management System
- Easy Transfer: An Android Application to Transfer Data Using WiFi or Bluetooth
- Aqualon++ - A Paint Application using C++
- Bus Reservation System
- Elementary Compiler for C
- Line Follower using 8051 microcontroller
- Aqualon - A Paint Application using Java Applets

Achievements, Positions of Responsibility and Additional Activities

- **Top 3** out of 131 in the Dept. of Information and Communication Technology.
- **Vice-Chairman** of "IEEE Student Branch Manipal" (2013-2014).
- **Represented** the I&CT Dept. at **BTECH Curriculum Conclave, 2014**.
- Volunteer at **Friends of Tribals Society** (Jan 2016-Mar 2016) - involved in *Van Yatra Program* and *development of in-house software*.
- Volunteer at **ETASHA Society** (Mar 2016-May 2016) - *conducted conversation and computer classes, photography, social media and blogs*.