Jyotheeswar Arvind Manickavasagar

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AREAS OF INTEREST
Software Engineering, Web Applications, Mobile Applications, Databases.

EDUCATION

M.Sc. in Applied Computing, University of Toronto   **January 2016 (Expected)**
Courses: Advanced Mobile UI, Creative Applications for Mobile Devices, Human-Computer Interaction, Advanced Topics in Mobile and Cloud Computing, Communication for Computer Scientists.
In progress: Technical Entrepreneurship, MScAC Internship.   GPA: 3.925 / 4

B.Tech. in Computer Science and Engineering, SRM University   **May 2014**
Courses: Data Structures and Algorithms, Microprocessors, Computer Architecture, Probability, Theory of Computation, Operating Systems, Compilers, Computer Networks, Artificial Intelligence, Object Oriented Design, Logic, Software Engineering, Parallel and Distributed Computing, VLSI, Human Computer Interaction, Data Mining, Web Technology.   CGPA: 9.7 / 10

Global Study Program, University of California Davis   **Sept 2012-Jan 2013**
Courses: Computer Graphics, Database Management Systems, Numerical Analysis.   GPA: 3.77 / 4

EXPERIENCE

Research Student Developer, Centre for Global eHealth Innovation, UHN   **Current**
Applied research internship as part of MScAC. Currently working on:
- Integrated mobile-web application automated test framework for Cucumber feature files.
- Web application, built with AngularJS and JEE backend, for prostate cancer self-management, wrapped into native mobile application.

Teaching Assistant, University of Toronto   **Sept 2014-Dec 2014**
CSC343H - Database Management Systems.

Project Intern, Congruent Solutions Private Limited Chennai, India   **May 2012 – June 2012**
Client Feedback System – Dynamic Web Application
- Dynamic web application to enable the organization to analyze their performance.
- Customized feedback forms for each client.
- Features include modification of the open form, analysis, generating reports.

PROJECTS

ChemoBrain   **March 2013**
- Android application to help cancer patients track symptoms and obtain relevant medical advice. Application automatically detects severe symptoms and pushes tracked information to healthcare professionals.

iShop   **March 2013**
- Context-aware android application that acts as a virtual personal assistant for shoppers.

Sparky: Gesture-based home automation   **December 2014**
- Android application to control devices using gestures.

Web-based Intrusion Detection and Response Tool   **May 2014**
- Web service designed to provide a tool for novice web application developers to help detect web-based intrusion attacks and respond to them.

Carpooling System IBM The Great Mind Challenge 2012   **March 2013**
- Intranet Web Application developed to provide a platform for carpooling.

SKILLS
- **Languages**: Java, JavaScript, C, C++, SQL, Matlab, Python, Ruby.
- **Web/Mobile Technologies**: AngularJS, D3.js, J2EE/JEE, JSP, HTML5, CSS3, Android.
- **Database Systems:** Oracle 9i, MySQL, PostgreSQL, IBM DB2.
- **OS**: Windows XP/Vista/7/8, Red Hat Linux, Ubuntu.
- **Tools**: Eclipse, MS Office, Pencil, Draw.io, Visual Studio, GitHub, WebStorm, Android Studio, Apache Tomcat.

OTHER ACHIEVEMENTS
- **Awards and Scholarships:**
    1. Certificate of Academic Excellence, University of California Davis, 2013
    2. University Rank 2, SRM University, 2012
    3. Performance Based Merit Scholarship, SRM University, 2011, 2012.
- **Publications:**
    1. B. Padhmavathi, M. Jyotheeswar Arvind, G. Ritikesh, "A Novel Client Side Intrusion Detection and Response Framework", *CiiT International Journal of Networking and Communication Engineering, India, ISSN 0974-9616 Vol. 6, No.7 (2014) pp*316-321.
    2. Co-authored book on Computer Literacy for underprivileged children in association with the Rotaract Club, SRM University, 2011.
- **Leadership:**
    1. President, Association of Computer Science Engineers, SRM University.
    2. Joint Secretary, Young Minds Quiz Club, SRM University.
- **Online courses:**
    1. Hadoop and the Amazon Cloud, Big Data University, Feb 2014.
    2. Big Data Analytics – Demos, Big Data University, Feb 2014.
    3. Introduction to Artificial Intelligence, Dr. Sebastian Thrun and Dr. Peter Norvig in association with Stanford Engineering, Dec 2011.
- **Workshops attended:**
    1. Autonomous Robotics, Technophilia, August 2010.
    2. Ethical Hacking and Information Security, TechDefence, September 2010.
    3. Cloud Computing, powered by Microsoft, October 2010.s
    4. Android Application Development, Ethics Technologies, October 2010.

LANGUAGES
English, German, Tamil, Hindi, Telugu.

References available upon request.