RIMA H. RANA

The University of Texas at Austin

Master of Science in Software Engineering **GPA: 3.89/4**   Aug 17 – May 19

Graduate Coursework: Data Mining, Software Architecture, Advanced Programming Tools,
Requirements Engineering, Algorithms, Automated Software Design

Birla Institute of Technology and Science – Pilani, **India**

B.E.(Honors) in Electrical and Electronics Engineering, **GPA: 9.36/10**   Aug 10 - Jun 14

Coursework: Computer Programming I & II, Digital Electronics and Computer Organization, Core JAVA

Technical Skills

Java, C++, C, Python, SQL, scikit, JavaScript, MATLAB, Groovy, Perl, Servlets, PHP, Oracle JET (jQuery, RequireJs,Knockout)
Coursera: Machine Learning, Cryptography

EXPERIENCE

Oracle India Private Limited	**Senior Software Engineer**	Jul 2014-Jul 2017

Domain: Identity and Access Management

Oracle Key Management Service (KMS)

- Implemented encryption service offered for creation and control keys to encrypt data for applications
- Designed and developed the UI console using Oracle JET to provide a centralized control to create, import and rotate keys *Oracle Identity Cloud Service(IDCS)*
- Spearheaded efforts toward development of REST APIs for **authorization**; Eased the uptake of **single sign-on** for cloud
- Improved security by enabling **OTP** *&* **Notification** based **multi factor authentication** on Windows, IOS & Android devices

Oracle Mobile Security Suite (OMSS)

- Developed an automated installation for complete suite; Utilized JAVA to run several Python scripts to install binaries
- Ideated and implemented Auditing framework for admin to debug logs with ease; Improved bug identification by 50%

Texas Instruments	**Intern**	Jan 2014-Jun 2014

- Identified developer issue of managing data from multiple vendor products in IC design process
- Ideated a tool to unify the report generation across products; Implemented the complete tool in SQL & Perl

The University of Texas at Austin	**Research Assistant**	Jan 2018 - Present

- Working on research projects in security and privacy under Dr. Suzanne Barber for the **Center for Identity**

The University of Texas at Austin	**Teaching Assistant**	Sep 2017-Dec 2017

- Taught undergraduate course on **Software Engineering and Design Laboratory**

RESEARCH PROJECTS

Bhabha Atomic Research Center, Mumbai – Summer Intern	May 2012-Jul 2012

- Study of Magnetic sensors and filters and their application circuits

Central Electronics and Electrical Research Institute, Pilani - Project	Aug 2013-Dec 2013

- Solved the visual attention problem using Bag of words approach

PROJECTS

- **Integrated Multifactor Authentication and Image Based Security Question Authentication for Oracle Cloud Security** - Hackathon project using Oracle IDCS for increased security and convenience *(In Patent process)*
- **Guiding Emergency vehicles in Urban Areas** – Tech fest project to find shortest route using Google Maps API, Javascript and MATLAB
- **Performance Aspects of 3G and 4G standards in wireless communication**- study oriented project with MATLAB simulations for Orthogonal Frequency Division Multiplexing(OFDM)
- **NS2 Simulator Model**- model for wireless network using tool command language and C++
- **Website Development for Indo Nordic Strategic Association**-a non- profit organization using PHP and Javascript integrating checkout with Paypal and CCAvenue

ACCOMPLISHMENTS

Captain for Inter-College Volleyball team; Bagged in 1 gold & 2 silver medals	2010-2014
Dhirubhai Ambani Foundation scholarship for excellence in XII CBSE board exams	2010
National Cyber Olympiad All India Rank – 49	2010
Governor Awardee, National Scouts and Guides of India	2008