# VARUN GAUR

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## SUMMARY OF QUALIFICATIONS

- Goal oriented professional with **7.5 years** of working experience in developing Core Banking Solutions with expertise in designing technical road-maps and implementation of techno-functional framework for diversified implementation projects in US and European locale.
- Pursuing Masters from *Arizona State University* in *Computer Science* and involved in research on Horn Rue discovery & D*ata cleaning*.
- Possessing knowledge of SDLC models and well versed with agile development practices.

## EDUCATION

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|---|---|---|
| **Master of Computer Science (MCS),** Arizona State University, Tempe, AZ | **4.00 / 4.00** (Pursuing) | Jan'16-Dec'17 |
| **Bachelor of Engineering, Electronics and Communications**<br>University of Rajasthan, Jaipur | **76.00% (Honors)**<br>CGPA:4/4 (WES) | Jun'04-May'08 |

## TECHNICAL SKILLS

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|---|---|
| **Languages/Tech**. | • PL/SQL, C, C++, Shell Scripting, JavaScript, JSP, JAVA, HTML, CSS, XML, Python, REST Web-Services, AJAX, jQuery, XSS/SQL injection/prevention techniques |
| **Database** | • Oracle 9i/10g/11g, IBM-DB2, RDF (Resource Description Framework), SPARQL |
| **Operating Systems** | • UNIX(HP-UX,IBM-AIX,SUN SOLARIS), Windows, Linux |
| **Tools** | • TOAD, Eclipse/NetBeans, IBM-Data Studio-DB2, i-Report Designer, Workbench, Data-Mining tools like Rule Miner |

## PROFESSIONAL EXPERIENCE

**Graduate Research Assistant,** **May 2016 – Till Date**
*CIDSE, Arizona State University*

- This is a research project (***Rudix*** – A Rule Miner tool) which targets performance improvement of rule mining/data cleaning processes.
- Implementing Data Cleaning algorithms for Knowledge bases like DbPedia, Yago etc. using RDF query style, Java and SPARQL.
- Developing a web based console to control core algorithm's configuration parameters using Restful web services, jQuery, AJAX, Java.

**Product Technology Lead,** **May 2015 – Dec 2015**
*Infosys Limited, India*

- Frontend Code Reviewer for Finacle 10.3.x version specific code changes written using JavaScript, JAVA, HTML, CSS and XML
- Developed a new module called "***PCHC – Clearing system***" to cater Philippines Clearing specific regulatory requirements.
- Worked as a Lead Developer for project "***Fin 10.3.3 Template Creation Module***" and "***Fin 10.2.9 Referral Enhancement***"

**Product Technology Analyst,** **Sep 2008 – May 2015**
*Infosys Limited, Philippines*

- Key responsibilities were to provide customized technical solutions using Python, Shell-scripts, C, Java, and JavaScript.
- Developed web based modules: ***Time Deposit IRA's*** *(Individual Retirement Arrangement),* ***Cash Commercial Services***, etc. for banks like Discovery Financial Soln., UBOC (USA) and RCBC, Philippines.
- Techno-Functional Anchor for multiple banking tracks like Payments, Remittances etc. and responsible for performing Requirement gathering, Parameterization and technical User education training (UET) for these tracks.
- Provided Onsite technical support for implementation projects of Infosys' Core Banking Solution (Finacle) in order to enhance the product features to be more adaptive to the US, Philippines and European banking environment

## ACADEMIC PROJECTS

**Vulnerability/Data exfiltration Analysis Tools**

- **Data Exfiltration Application:** Application exploits the network level vulnerabilities by compromising the network packets from trusted users. It exploits entire IP suite viz. ICMP, TCP and UDP for such exfiltration.
- **Automated SQL Exploit Tool:** It extracts data using the BLIND SQL injection concepts and captures the vulnerabilities existing in a domain.
- **Morris Worm with backdoor**: Implemented a Morris worm having a Web Server backdoor with host discovery functionality. A Web Server was developed in Python using socket programming, based on RFC 2616 without using any HTTP libraries.

**Lightning Fast and Space Efficient Inequality Joins Implementation**

- Implemented the Inequality Join Algorithm for two tables and extended it to support more than two tables and then optimized the query plan to reduce the size of intermediate Join results.
- Further extended the inequality join algorithm to be space efficient based on research paper published by Dr. Paolo Papotti (in Minibase)

## AWARDS/ACHIEVEMENTS/CERTIFICATIONS

**Certifications:** Red Hat Linux Network Associate certification, Microsoft Certified Solution Developer in HTML5
**Awards**: Infosys GEM Award for Outstanding Client Engagement feedback, Infosys Excellence Award for RCBC, Philippines.