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TUSHAR GOYAL

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WORK EXPERIENCE

Symantec, Bangalore.

Assoc. Software Engineer, User Authentication Group.

Team: Validation And Identity Protection (VIP) for Two

September, 2014 - Current

Factor Authentication.

- Proximity based login based on Bluetooth LE leveraging the proximity of iPhone as the Authentication Token for the MAC OS X based systems.
- Developed Widget for OTP Credential for VIP Access Android Application.
- Written JUnit tests for the VIP Mobile Android SDK.
- Written Authorization plug-in for MAC OS X which helps in providing 2 Factor Authentication to the System using SFAuthorisationPluginView and PAM (Pluggable Authentication Module) and hence, providing strong authentication suite.

Freshdesk Inc., Chennai.

Product Developer, FreshDesk Core/ FreshSocial

July, 2014 - August, 2014

- Worked primarily on Web 2.0 basically comprising of Ruby on Rails MVC Backend and JavaScript Backbone.js MVC frontend integrated with Require.js and Node.js for building. Used Jasmine.js and Sinon.js for BDD.
- Developed Agents (freshsocial.com/agents) sub-url Module which supported access based mechanism for Creation, Deletion and Update (CRUD) of Agent profiles.
- Twitter Engagement Platform: Client side implementation to tweet directly from the platform itself.

EDUCATION

Sardar Vallabhbhai National Institute Of Technology,
SURAT.

July 2010 – May 2014

B. Tech in Computer Engineering (CGPA: 8.93)

Semester	I	II	III	IV	V	VI	VII	VIII
SGPA	8.28	8.04	8.77	9.00	9.23	9.64	9.19	9.52
CGPA	8.16		8.50		8.80		8.93	

Kapil Gyanpeeth, Mansarovar, Jaipur.

2010

- All India Senior School Certificate Examination (Percentage: 78.0)

Kendriya Vidyalaya No. 1, Moti Dungri, Alwar.

2008

- All India Secondary School Examination (Percentage: 89.8)

SKILLS AND INTERESTS

- Languages:** C++, C, Java(Core), Prolog, SQL, PHP, HTML5/CSS (Basic)
- Operating Systems:** Ubuntu, Red Hat Enterprise Linux Server 5, Mac OS X, Tiny OS, Windows
- Security Tools:** Wireshark, Nessus, Scapy, IP Tables, Snort (IDS), Honeyd HoneyPot Tool
- Areas of Interest:** Computer Security, Wireless Sensor Networks, Natural Language Processing, Data Structure and Algorithms, Mathematical problems, Computer Networks.
- Hobbies:** Competitive Programming, Photography, Listening Music.

TECHNICAL EXPERIENCE

Network Management

Laxmi Niwas Mittal Institute Of

Certification Course, NETTECH

Information Technology, Jaipur (LNMIIT)

12th June 2012 – 6th July 2012

- Introduction to Networking, Unix Concepts Commands and Utilities, FTP, DNS, DHCP, Samba Configuration, Apache Webserver, Sendmail Configuration
- Got 2nd rank amongst 176 students attending the course in the regularly conducted tests.

PROJECTS

Mitigation of Phishing Attacks

Prof. Devesh C. Jinwala, NIT Surat.

Final Year Project

- Modified authentication approach that involves both the client and server, and integrates security with the primary task of the user.
- Survey of various Phishing measures and prevalent anti-phishing techniques. Discovered that there is scope of improvement for client server authentication method.
- The approach involves transfer of security string calculated as the hash of the concatenation of User Password and Random Number (generated at login time), as the authentication token.
- Client Side Application developed in Python-Qt Framework. Server used: PHP on backend scripting with MySQL as database. Hashing Algorithm used: SHA2-512
- Extended the approach to be used on Mobile and other resource constrained environments. Used Universal Hash Functions (also known Lightweight Hash Function).

Predicting Correctness of a Parse

Prof. Dipti M. Sharma, IIIT Hyderabad.

20th May 2013 – 16th July 2013

- Incorporated into the widely used parsers the functionality of predicting quality estimation score along with the parse.
- Worked on various state of the art constituency and dependency parsers namely Charniak and Johnson Parser, Self Trained Charniak and Johnson Parser, Collins Parser, Stanford Parser, Berkley Parser, Link Grammar, MST Parser, Malt Parser.
- Built a regression model to elucidate a relation between various features of the input and parser accuracy using libSVM tool for Machine Learning for Charniak and Johnson Parser.

College Online Assignment And

Evaluation Tool

Lec. Nirali Nanavati

Part of semester Mini Project

- An **application** to facilitate online correspondence where students have to submit assignments provided by various faculty members which keeps track of all assignments submitted till date, Grades based on their performance, deadline etc.
- Authentication mechanisms and Student Coursework Track implemented using MySQL with PHP on backend.

Cyberoam User Interface

Asst. Prof. Sankita J. Patel

Part of semester Mini Project

- An GUI application made in Python-Qt for Cyberoam Portal, the internet firewall for the college network, through which Students can login by providing their user-id and password
- Activities included the Software Requirement Specification (SRS) Document Build-up along with Unified Modelling Language (UML) Diagrams using Visual Paradigm Software.

ACHIEVEMENTS / EXTRA CURRICULAR ACTIVITIES

- Active programmer on **SPOJ** and **CodeChef**. Solved Over 200 problems on SPOJ with World Rank 771 (As of February 2014) Username-tusharg1993
- InterviewStreet** (Now **HackerRank**) **Codesprint 5**: (January 18th, 2014) World Rank 177 Username- tusharg1993
- ACM International Collegiate Programming Contest (ACM-ICPC) 2012-2013**: Online Round- 76th out of 1413 Teams (1st in College) Onsite Round- 136th out of 379 Teams (3rd in College).
- ACM International Collegiate Programming Contest (ACM-ICPC) 2013-2014**: Online Round- 158th out of ~1000 Teams (2nd in College) Onsite Round- 25th out of ~260 Teams (1st in College).
- Founding Member of Coding Club for NIT Surat.
- Problem setter for college level competitive programming event Epiphany 1.0
- Executive Committee Member the NIT Surat ACM Student Chapter.
- Top 10% students of **National Standard Examination in Physics (NSEP) 2010** Conducted by the Indian Association of Physics Teachers (IAPT) for centre Jaipur.
- Got All India Rank - 27 In **Scholastic Maths Olympiad** Organised By Kendriya Vidyalaya Sanghathan(KVS) In Year 2010

COURSEWORK

- Distributed Systems, Security In embedded systems, Network and Systems Security, Economics and Business Management, Information Security, Software Engineering, Internet Technology and Applications, Artificial

Intelligence, Operating Systems, Systems Software, Database Management Systems, Unix Programming, Wireless Networks, Algorithm Analysis and Design, Computer Networks, Microprocessor Interfacing Techniques, Principles of Programming Languages, Computer Graphics, Data Structures, Theoretical Computer Science, Computer Based Information Processing, Computer Organization, Discrete Math, Digital Circuits, Communication Systems

PERSONAL INFORMATION

- Father: Gopal Lal Goyal
- Gender: Male
- Nationality: Indian
- Mother: Madhu Goyal
- Date of Birth: 20-01-1993
- Languages: English,Hindi