

# Anurag Panwar

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## OBJECTIVE

Seeking a Internship/CO-OP in the field of Software engineer where I can use my technical skills in Software Development and which provides a rewarding experience of working with the best.

## EDUCATION

**Missouri University of Science and Technology**  
Master of Science in Computer Science

May 2014-present

**Indian Institute of Technology, Guwahati**  
Bachelor of Technology in Computer Science and Engineering  
**Thesis:** Network based approach to predict the disease genes

Jul 2008-May 2012

**B.S.F. Senior Sec. School, Sri Ganganagar (India)**  
Senior Secondary School (CBSE)

Jul 2007-Jun 2008

**B.S.F. Senior Sec. School, Sri Ganganagar (India)**  
Higher Secondary School (1<sup>st</sup> in Class. Highest in Math's (99/100))

Jul 2005-Jun 2006

## COMPUTER SKILLS

**Languages:** C, C++, JAVA, Python, Matlab, R programming, OpenGL, Java Script ,Ruby

**Web Technologies:** HTML5, JQuery Mobile, CSS, XML, Perl, Servlets, Apache Tomcat, Jboss AS

**Database:** Oracle 11g, MySQL, MongoDB, SQLite

**Development and Build Tools:** Eclipse IDE, vim, Jakarta ANT, Apache Maven

**Operating Systems:** Windows XP/VISTA/WINDOW 7, Ubuntu 9.04, Mac OSX 10.8/10.9

## EXPERIENCE

**Graduate Research Assistant**      **Missouri University of Science & Technology**      July 2014 - Present

- Designing and implementing algorithms for mood detection of person in Online social media
- Working on some of the exciting problem of social media data analysis

**Software Engineer Intern**      **Mogreet, Inc., Venice, Los Angeles, USA**      May 2011 - July 2011

- QR(Quick response) code generator for the URL, text, vcard and mobile message  
**Mentor: Anthony Rossano, CTO, Mogreet Inc.**  
Technologies and skill involved: Reed-Solomon error correcting code Algorithms, Ruby, Python  
As a part of Summer Internship, I implemented the QR code generator both in Ruby and Python. This QR code is 2-D barcode which is developed by Denso wave, Japan. The QR code can store upto 7 KB of data. QR code consists of two parts, encoder and decoder. I implemented the QR encoder, which generates the QR code image in which data is encoded.
- Analysis to see the relative changes in different subsystems (like Carries, Handsets et al over time)  
**Mentor: Anthony Rossano, CTO, Mogreet Inc.**  
Technologies and skill involved: Data Mining, Machine Learning, Neural networks, R programming and Weka data mining tool.  
I did the data mining on Mogreet Database, which is leading company in US to provide the Mobile marketing

using MMS, SMS and QR codes. The domain of the analysis is the user data of about 3.7 million rows of user table, 21 Millions rows of transaction table, handset table and carriers table. For demographics purposes, Neural Networks are implemented using fuzzy logic approach.

**Research Assistant Intern      Pohang University of Science and Technology, South Korea      Jan 2010 - Mar 2011**  
**Mentor: Prof Chan-IK Park, System Software Lab, POSTECH, SOUTH KOREA**

- Secure server/client installer using TPM for the enterprise edition of Debian Lenny  
Technologies and skills involved: C programming, Computer security, embedded system, parallel programming

I developed the secure package (based on Xen and TPM (Trusted Platform Module)) for enterprise Edition and after that I applied this module to target system, but we cannot use normal installation process Because this package is needed very high security level. So, I developed secure server/client installer using TPM.(This installer supports security and easy to use, because of using it in enterprise.)This TPM is great advantages in the fields of e-commerce where we can't rely on the security provide by the software. So this TPM chip is embedded in the CPU to ensure the security.

## INDUSTRIAL EXPERIENCE

- | Information System Officer   | Indian Oil Corporation Limited | Aug 2012 – Jul 2014 |
|--|--------------------------------|---------------------|
| <ul style="list-style-type: none"><li>• Worked with Indian Oil Corporation(<a href="http://www.iocl.com/">http://www.iocl.com/</a>), a fortune 500 company and India's largest commercial enterprise, having 35,000 plus employees with operations over 900 locations, as a mobile application developer, in the Corporate Information Systems Department.</li><li>• Implemented Customer mobile application in which the retail and sales customer can access our SAP ERP(Enterprise Resource Planning) through their mobile.</li><li>• Worked toward both Web and native version of the employee application named MPower whose web version can be accessible at <a href="https://m.indianoil.in">https://m.indianoil.in</a></li><li>• Developed GPS application named Xsnehash for the Indian Oil Consumer to track the nearest Petrol Station within periphery of 5 kms and provide the Gas prices in real time.</li></ul> |                                |                     |

**In Front end Technologies involved: JQuery mobile, Javascript, HTML, JSP, CSS, JAVA, JSON**

**Also Worked on the back end Technologies like RESTFUL services**

**Tools used: Development using NWDS 7.3(Netweaver development studio)**

**Developed RFC(Remote Function call) in ABAP(language of SAP).**

## ACADEMIC ACHIEVEMENTS AND AWARDS

- Secured a position among top 0.1% from a total of 3,00,000 entrants in Joint Entrance Examination (JEE) for IITs in 2008.
- Ranked 12<sup>th</sup> among 50,000 candidates in the Rajasthan Pre Engineering Test (RPET) 2008
- Secured a position among top 0.3% from a total of 4,50,000 entrants in All India Engineering Entrance Examination (AIEEE) in 2008.
- Recipient of India's most prestigious National talent search examination (NTSE) Scholarship 2006 (Percentile 99.87%).
- Awarded Merit Certificate under National Scholarship Scheme by Director of Education for performance in Class 10th (2006)
- Scored Highest Marks in Mathematics (99/100) in Class Xth in the District. (2006)
- Awarded by Rajasthan State Government for meritorious performance in Class Xth. (2007)
- Awarded IIT Guwahati's reputed scholarship MCM on the basis of senior secondary school merit.(2009)
- Recipient of Central Sector Scholarship awarded by Ministry of Human Resources and Development (MHRD) awarded to 10 students of IIT Guwahati on the basis of performance in IIT-JEE (2008).

## ACADEMIC PROJECTS

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- **B.Tech Thesis: Network based approach to predict the disease genes** using the tool called Cytoscape, which is a bioinformatics software platform for visualizing molecular interaction networks. The main focus of this project is to identify the drug target, determining the role of particular protein and genes and design effective strategies for infectious diseases. The network approach has wide variety of application in network analysis for Social Networking and web mining.
- **Enhancing the Pintos Kernel:** Enhancing the Kernel of Pintos by implementing various OS constructs like Process Synchronization Primitives, implementing schemes for running programs in both user and kernel model, File System Management, and development of virtual memory using demand paging.  
**Guide- Prof J K Deka, Associate Professor, IIT Guwahati**
- **R&D Automation Project :** This project aims at automation of activities of the Research and Development cell of IIT Guwahati. The project aspires to generate a solution incorporates Object Oriented approach and has been modeled using UML. This Solution was implemented using JAVA and MySQL.  
**Guide: Prof P.K Das, Associate Professor, IIT Guwahati**
- **BTP project submission web application:** As a part of my system software course, I have designed a web application for the B.Tech project submission which can be accessed by student for the submission of their B.Tech projects. A web based solution to the BTP report submission and automatic slot allotments keeping in mind the need of student and faculty for presentation; it also had a feature of student, faculty and DUPAC member login. Using HTML and PHP for frontend and MySQL for backend.  
**Guide: Prof Santosh Biswas**  
Technologies and skills involved: HTML, PHP, MySQL, Asp fundamentals
- **4-Bit CPU:** Designed and implemented a 4-bit CPU, implementing basic arithmetic and logical instructions, jumps, read and write to memory, and a stack for function calls.  
**Guide: Prof J.K. Deka, IIT Guwahati**

## HONORS & ACTIVITIES

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- **Department Representative** of Computer Science in **Council of Graduate Student (CGS)**, Missouri University of Science and Technology
- **Committee Member** of **International Student Club(ISC)** of Missouri University of Science and Technology- **Webmaster**
- Missouri University of Science and Technology - Computer Science Department - **Graduate Fellowship Recipient**
- One of the Organizing Members of the Technothlon team, IIT Guwahati, which organizes India's largest School Science championship in India.
- Winner of inter-school debate competitions in class 11th and 12th. (2007-08)
- First prize, General Quiz in school. (2008)
- District 2nd in Essay writing competition organized by Rotary club, Rajasthan (2008)
- Actively involved in B-plan (Business Plan) held during Techniche 2010(Technical Fest of the IIT Guwahati).