Pranjal Goswami

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ACADEMIC QUALIFICATION

Program	Institution	%/CGPA	Completion
B Tech in Chemical Engineering	IIT Kharagpur	8.64	2014
Minor in Computer Science & Engineering	IIT Kharagpur	8.83	2014
XII (CBSE)	Sri Chaitanya, Vishakhapatnam(A.P.)	94.80%	2010
X (ICSE)	St. Xavier's Higher Secondry School,Raipur (C.G.)	97.14%	2008

ACADEMIC ACHIEVEMENTS

- Among **top ten students in ICSE 2010** and obtained **national highest score in Physics, CBSE 2012**
- Department Rank 9 among 90 students of the department of Chemical Engineering
- Amongst top 1% in **National Physics Olympiad**
- Won Medal at the State Level of **NATIONAL SCIENCE CONGRESS, 2008**

INTERNSHIPS/PROFESSIONAL EXPERIENCE

Deutsche Bank CIB Centre, Mumbai
(May – July 2013)

Implied Probability Distribution for CDS Index Options

- Studied the Black Scholes Model and Pedersen Model for Option Pricing
- Formulated the implied probability distribution for index options using Derman's Model for Stock Options
- Built an excel tool to generate CDS Index implied probability curve and visual comparison with realised historical curve

KEY PROJECTS

B.Tech. Thesis, IIT Kharagpur
(August 2013 - present)

Monte Carlo Simulation for atomic distribution during alloy formation

- Modelled metallic alloy formation and developed code to obtain 8 ply heuristics for configuration change
- Conceptualized search algorithm for obtaining minimum energy configuration and population distribution of metal atoms
- Implemented alloy formation simulation in python

Quantum Molecular Engineering Laboratory, IIT Kharagpur

Enzyme active-site isolation from Protein Data Bank information

- Ideated **Enzyme Activity Isolator(EnZIs)** , a program to isolate atoms in an enzyme molecule lying in a range of active distance

Erudito (Open Soft, IIT Kharagpur)
(March 2013)

- Part of the team that developed a windows-platform application to browse, download and organize academic research papers and scientific literature from different web sources
- Worked mainly on user personalization, designed and created the Application User Interface

ThinkUp (Open Source Project)
(June 2013)

- Contributed to open-source project *ThinkUp*, a web application to give users insights about their social networking activity on Twitter, Facebook, Foursquare, Google+ and beyond.
- Developed and published patch for customization of insights and worked on new features
- Used PHP, MySQL and javascript extensively to fix bugs and implement suggestions

EatSlick (Syncth Labs, Bangalore)
(June 2012)

- Developed iOS application for end users that enables placing orders from a digital menu on the customer's smart phone

INITIATIVES

Co-founder, Syncth Labs
(January 2012 - present)

- Project Management and Development of CRM for F&B Industry
- Developed server framework and database schema for web application, designed visual design for Consumer Tablet Application

Founder, Greek Turtle
(June 2011 - present)

Web Application Development

- **Intaglio Smart Event:** Implemented online event manager for Indian Institute of Management, Calcutta in PHP
- **TnP Alerts:** Created a web application to organise Training and Placement information and send SMS via a GSM modem
- **Jyukebox**: Developed an http audio stream application for streaming mp3 compressed audio files and
- **Moneycare Solutions:** Conceptualized and implemented a web application to manage financial portfolios

POSITIONS OF RESPONSIBILITY

Coordinator, Entrepreneurship Cell, IIT Kharagpur   (September 2012 - present)
- Head of Publicity Media Design and Web, led a team of 7 members responsible for all media designs
- Ideated and built online event *Tag'em All* for Global Entrepreneurship Summit, 2012 that saw a participation of 15,000 users, 50 times the participation in previous online events
- Created ***Start-In*** a national web portal to assist students in applying for internships at Start-ups throughout India

Auditor, Mess, Rajendra Prasad Hall of Residence, IIT Kharagpur   (July 2012- present)
- Initiated and developed online mess card system to allow hall boarders to manage personal mess menu and cost management
- Pioneered and implemented RFID based mess authorization system for boarders.

Team Captain, Open Soft, Rajendra Prasad Hall of Residence, IIT Kharagpur   (July 2013 - present)
- Responsible for leading a team of twenty members for *Open Soft 2014*, an Institute-wide software development competition

Core Team Head, ChemInsight 2013, IIT Kharagpur   (October 2012 – March 2013)
- Solely conceptualized and designed sponsorship process contents and delegate kits for the fest
- Administered assurance of delivery of terms for deliverables agreed to in memoranda

Group Leader, National Service Scheme, IIT Kharagpur   (August 2010 – May 2011)
- Led a team of 12 members, devised and initialized a program for enhancing education in English for high school students at Talbagicha village
- Organized guest lectures by professors at IIT Kharagpur at Talbagicha High School emphasising on importance of education

Speaker, Model Parliament, St. Xavier's High School   (March 2006 – February 2007)

EXTRA-CURRICULAR ACTIVITIES

- Qualified for **Pilot Aptitude Battery Test** organized by the National Defense Academy in 2010
- Awarded title of **Best Quizzard** in State during the TATA Steel Quiz Competition and represented Chhattisgarh State in TATA CENTENARY NATIONAL QUIZ COMPETITION, 2008
- First prize in state level debate organized by **JCI** – Chhattisgarh in 2008

Music
- Played Hindustani Classical Sitar for All India Radio, Raipur and qualified for **C-High Artist Certificate**
- Won individual and group medals in Inter-hall Entertainment events in IIT Kharagpur for playing Hindustani Classical Sitar
- Awarded **Badhawar Cup 2010** for excellence in Music and Technology Events at IIT Kharagpur

SKILLS

- C, PHP, Javascript, Python, C#, Ruby, Objective C – in decreasing order of experience
- Database Management – MySQL
- Microsoft Excel – VBA Macro building
- Adobe Photoshop, Adobe Dreamweaver, X-Code