

Prateek Gaur

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Education

Period	Institution/ Board	Degree/ course	Marks/ grades
2012-now	Université Libre de Bruxelles (ULB)	MS (IT4BI)	Ongoing
2008-2012	IIIT-Delhi	B.Tech. Honors(CS)	CGPA 8.52 (SGPA: 9.2 8 th Semester)
2006-2008	Central Board of Secondary Education	XII	90%
2004-2006	Central Board of Secondary Education	X	92.4%

Internships

- [Accenture Technology Labs](#) (R&D), Bangalore (May, 2011-July, 2011)
Aim- SNA based study on Software team dynamics for various stages of SDLC
- [Precog](#), IIIT Delhi under Department of Information Technology ([DIT](#)) (May, 2010-July, 2010)
Aim- Detecting online pedophilic activity through chat logs

Projects

- **B.Tech. Project-** Low Cost Multi-sensor Contactless Fingerprinting (Matlab and Java)
- **Facebook's "Recommended for You" Filter-** Customized user feed (Machine Learning, LibSVM, Java) **Duration:** 2.5 months
- **Automatic Email Classification-** (Java, LibSVM) **Duration:** 2.5 months
- **Ongoing Projects-** Implementing and comparing the performance of an external memory multi-way merge sort algorithm with the existing external memory mechanisms, Comparing the performance of Cache Databases with Oracle Based SQL standard, Executing ETL logic over Oracle Datawarehouse Builder, Implementing online Quote Management System in BPMN 2.0 and executing the same using Yawl tool, Simulating various criteria involved for Roommate Selection using Promethee Method on DSight tool.
- **Audio Genre Classifier-** Identifying and classifying a small music segment into different genres. (Shazam et al.) (MATLAB) **Duration:** 3 months
- **Energy and Health Car buddy-** an automatic embedded prototype rendered safe using external sensors without taking any external power. **Duration:** 2.5 months
- **Vendor Publishing Interface (VPI)-** A web application developed using PHP, HTML, CSS to serve as an interface for both the vendors of a supermarket to upload their products and the consumers to compare the price of a product with other nearby vendors. **Duration:** 3 months

- **Local business Search “finding the nearest”**- Cheap alternative to GPS using Cell Broadcasting Service. (J2ME and Java) **Duration:** 6 months
- **Phishbook. Are you Ed. Edd or Eddy**- Involved user profiling based on context aware social phishing attacks using Facebook’s social network. (PHP, Facebook API) **Duration:** 3 months
- **Valuation of Non-Conventional real estates**- Relative, Income and DCF Valuation using Excel **Duration:** 1.5 months
- **Google/ Microsoft competitive strategy and its impact on Capital Budgeting Decisions**- SWOT & Porter’s Five Force Analysis, Decision Tree based analysis; Sensitivity Analysis and Scenario analysis using Monte-Carlo Simulation using Excel. **Duration:** 2.5 months
- **Valuation of an Infrastructural Company**- CAPM, WACC, Dividends Discount Model using Excel. **Duration:** 1 month
- Other projects include a **Multiuser (thread-based) Hangman** Game in C, **Hotel Ranking** on the basis of user comments extracted from sites such as Virtualtourist.com, etc. ,**Computer Simulated Soccer Game** in C using multithreading (Posix) (Opted as the **best project**), a C# based fully fledged **Instant Messenger** (won **best project** award).

Teaching Experience

- Served as a Teaching Assistant for Digital Circuits Course (Aug 2010 – Dec 2010), IIITD under [Dr. Saket Srivastava](#).

Technical Skills

Languages- C, Java, Matlab, SQL, VHDL, Verilog, MIPS Assembly, Java ME, basic knowledge of HTML, PHP, CSS, Couchdb(database), R, Intersystems Cache, BPMN, Petrinets
Software- Eclipse, Netbeans, Visual Studio, Toad(database), Wireshark, Automap, Open Calais, Sonata(VHDL), Xilinx ISE(Verilog), GWT(Google Web Toolkit), WinAVR(Embedded), Yawl, MS SQL Server, Oracle Warehouse, Dsight
Operating Systems- Linux(Ubuntu, Kubuntu, Fedora, Backtrack, etc.), Windows.

Honors and Awards

- **2012-2014**- Erasmus Mundus Scholarship for Masters In Business Intelligence
- **2000-2004**- DAV class *topper* award for 4 consecutive years.
- **2006**- DAV Fee Scholarship for scoring 2nd rank in 10th grade.
- **2008**- Special honor for **academic excellence** throughout schooling.
- Honors for securing top 2 positions in various intra-school athletic events particularly races.

References

1. [Dr. Esteban Zimanyi](#), Director of the Department of COD, ULB , ezimanyi@ulb.ac.be
2. [Dr. Mayank Vatsa](#) (Biometrics and Image Analysis, IIIT Delhi), mayank@iiitd.ac.in
3. [Dr. Vibhu Sharma](#) (Manager-Research, Accenture Technology Labs, India), vibhu.sharma@accenture.com
4. [Dr. Ashish Sureka](#) (Data Analytics, IIIT Delhi), ashish@iiitd.ac.in
5. [Dr. Anirban Mondal](#) (Data Analytics, IIIT Delhi), anirban@iiitd.ac.in

Courses Taken-

Masters- Database Systems Architecture, Advanced Databases, Business Process Modeling, Decision Engineering, Data Warehousing, Introductory French

Communications and Humanities- Technical Communication, Communication Skills, Critical Reading, Research Methods, Effects of Science and Technology on Society (HSS), Perspectives on Knowledge (POK), Psychology

Hardware - Digital Circuits, Computer Organization, Digital Communication, Embedded Systems, Transducers and Signal Conditioning

Math- Discrete Math, Probability & Statistics, Linear Algebra and Advanced Calculus, Theory of Computation (TOC)

Data Analytics - Database Management System (DBMS), Information Integration and Data Analytics (IIDA), Information Retrieval, Data Warehousing and Business Intelligence (DWBI)

Systems- System Management(SM), Operating System (OS)

Software- Intro to Programming, Data Structures, Advanced Programming in OOPs(JAVA), Software Engineering , Advanced Data structures and Algorithms (ADA)

Biometrics and Artificial Intelligence- Pattern Recognition, Machine learning, Image Analysis (Independent Study)

Non- I.T. - Introduction to Corporate Finance, Entrepreneurship, Introduction to Economic Analysis, Valuation and Portfolio Management

Networks and Security -Computer Networks, Foundations of Security(FS), Mobile Computing, Independent Study on Cloud Computing (Courtesy : MS Windows Azure (sponsor)), Privacy and Security in online Social Media (PSOSM)