

MANOJKUMAR D JAIN

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An informatician with academic and professional experience of information management and visualization in areas of life sciences such as Chemistry and Biology as well as proficiency in Computational Chemistry and Software Engineering

ACADEMIC QUALIFICATIONS

- Dec 2005** Master of Science in Chemical Informatics
Indiana University School of Informatics, Indianapolis
- Dec 2004** Post Graduate Diploma in Bioinformatics
Bioinformatics Institute of India (Noida) – Distance Education Program
- Dec 2001** Post Graduate Diploma in Information Technology
Indian Institute of Information Technology (IIIT, Bangalore)
- May 2000** Bachelor of Chemical Engineering
University of Mumbai, Department of Chemical Technology

SKILL SET

Platforms	DOS, Windows 3.1/95/NT4.0/2000/XP, UNIX/LINUX
Languages	Basic, Pascal, Fortran, C, C++, UNIX Shell, PERL, CGI
Web Development	Java, Servlets, EJB, JSP, JavaScript, CSS, HTML, XML
Servers & Databases	NAS 4.0, Weblogic 6.1, Oracle8i/9i, MS Access 2000
Bio/Chem Tools/Packages	Blast, Fasta, SciFinder Scholar, CSD ConQuest, ICSD FindIt, Smiles, Smarts, Smirks, ISIS Draw, Molekel, ProCheck
Molecular Modeling	PCModel, Gamess, Jaguar, Spartan, Sybyl, MacroModel
Scientific Data Mgmt	LabTrack, CyberLab, SpotFire, TotalChrom
Software Packages	Matlab, Toad, WebGain Studio, Ant, CVS, MS-Office, MS-Visio
Conceptual Knowledge	J2EE Architecture, Semantic Web, Extreme Programming

PROFESSIONAL EXPERIENCE

- 06/05-08/05** Summer Intern, Eli Lilly and Company (Indianapolis, IN)
Information Management, Processing, and Analysis of x-ray crystallography data
Development of UNIX Shell Scripts and PERL Scripts for data processing
- 09/01-06/03** Systems Analyst, CrimsonLogic India Pvt Ltd (Bangalore, Karnataka)
Capability Maturity Model [CMM] – Level 5 Certification
Software Engineering Process Group [SEPG] Member
Software Quality Assurance [SQA] Team Member
Formulating quality procedures, guidelines, and checklists
Coordinating implementation and performing quality audits

- Future Firm [FF] – Manage law firms better, with savings in cost, time, and resources, as well as increase in efficiency and security
 Creation & Management of Matters, Internationalization [support multiple languages], Integration with EFS
 Module Leader for Matter Management Module
 Requirement Analysis & Design, Database Design, Development, Debugging, and Enhancements
- eProcurement System [EPS] – Computerizes ‘Procurement’ workflow
 Create, Submit, Budget, Approve/Reject requisitions
 Purchase order generation and tracking
 Design & Development of two new modules
 Development, Enhancements, and Debugging
 Database optimization and SQL Query optimization
- 06/01-08/01** Intern, CrimsonLogic India Pvt Ltd (Bangalore, Karnataka)
 Electronic Filing System [EFS] – Web-based application used by Singapore judiciary system to go completely paperless
 Front-end display and user-entry validation
- 05/99-07/99** Intern, Ion Exchange [India] Ltd (Ambernath, Maharashtra)
 Study of ion exchange mechanism and its application in water purification

ACADEMIC EXPERIENCE

- 2004-2005** Research Assistant, IUPUI School of Informatics (Indianapolis, IN)
 Research Focus: Study of a new structural feature of protein, the dehydron, and the importance of dehydron in drug design, protein interactions, protein networks, and protein evolution
 Research Advisor: Dr. Ariel Fernandez
- 2005** Technology and The Law
 In-depth knowledge of Patents, Trade secrets, Copyrights, and Trademarks
- 2004** Scientific Data Management and Analysis
 Project: Analysis of PDB information and visualization in SpotFire
 Experience in tools such as Matlab, LabTrack, CyberLab, and SpotFire
- 2004** Independent Study in Molecular Modeling – under Dr. Donald Boyd
 Project: Conformational analysis of TAD and its analogs
 Experience in modeling software such as Spartan, Sybyl, and MacroModel
- 2003-2004** Projects in protein structure prediction and protein function prediction
 Analysis of protein structure and function prediction techniques
 C-Program for protein structure prediction using Genetic Algorithm
- 2001** Take@Test – Online Test Portal for taking tests in various topics
 Experience in Java, Servlets, JDBC, MS Access, HTML
- 2000** Plant Design to manufacture Monosodium Glutamate

AWARDS AND HONORS

- 2003** MDL Fellowship Award for Excellence in Informatics at IUPUI
1996 12th Rank in Mumbai Merit List for Class XII Examinations

PUBLICATIONS

Paper: Franchetti, P., Cappellacci, L., Pasqualini, M., Petrelli, R., Jayaprakasan, V., Jayaram, H.N., Boyd, D.B., Jain, M.D., and Grifantini, M. – Synthesis, conformational analysis, and biological activity of new analogues of thiazole-4-carboxamide adenine dinucleotide (TAD) as IMP dehydrogenase inhibitors – *Bioorganic & Medicinal Chemistry*, 2005, v 13(6), p 2045-2053

Abstract: Jain, M.D. and Boyd D.B. – Conformational Analysis of New Inhibitors of Human Inosine Monophosphate Dehydrogenase – Abstract 14-A for the Fifth Annual Local Section American Chemical Society Poster Session, DePauw University, Greencastle, IN, October 11, 2004

POSTER PRESENTATIONS

Jain, M.D. and Boyd D.B. – Conformational Analysis of New Inhibitors of Human Inosine Monophosphate Dehydrogenase – Fifth Annual Local Section American Chemical Society Poster Session, DePauw University, Greencastle, IN, October 11, 2004

Jain, M.D. and Boyd D.B. – Molecular Modeling of Thiazole-4-carboxamide Adenine Dinucleotides with Antitumor Activity – Department of Chemistry Poster Session, Indiana University–Purdue University at Indianapolis, Indianapolis, IN, October 6, 2004

AFFILIATIONS

Member of American Chemical Society (ACS), since 2004

Member of Association for Computing Machinery (ACM), since 2005

EXTRA-CURRICULAR ACTIVITIES

Mentor in International Peer Mentoring Program at Office of International Affairs, IUPUI

Volunteer in Community Service programs at IUPUI

Chairman of Revelers Club at CrimsonLogic India Pvt Ltd, Bangalore

Internship Committee Member for arranging Internship Recruitment at IIIT, Bangalore

REFERENCES

Ariel Fernandez	Adjunct Professor, School of Informatics, IUPUI
Mahesh Merchant	Associate Professor, School of Informatics, IUPUI
Donald Boyd	Research Professor, Department of Chemistry, IUPUI