

Curriculum vitae

Sushil Kumar Singh

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Objective : To pursue a challenging career in Bioinformatics Industry and be a part of a progressive organization and contribute to the growth of the organization that gives me a scope to enhance my knowledge and skills in order to cope with the latest technological trends.

Summary Post Graduate Diploma in Bioinformatics from IBAB, Bangalore and M.Sc. in Bioinformatics from Annamalai University (Distance learning mode - Ongoing)
One year of Experience in Bioinformatics Industry.
Skills: C, C++, Perl, SQL, Microarray Technology, Functional Genomics, Computer Added Drug Designing, Design and implementation of new modules.

Professional Experience

Duration : April 2003 - till date.
Company : Siri Technologies Pvt. Ltd. Bangalore (Bioinformatics Division)
Team Size : 40
Designation : Bioinformatics Analyst
Project Name : SilicoCyte™
Client : CytoGenomics Inc. USA
Project Description : SilicoCyte™ is an advanced, modular, flexible and highly integrated microarray analysis platform designed for automated image analysis, comprehensive data annotation, elaborate data analysis and advanced data visualization.
It has superior data management and data mining capabilities along with effective project management features that include organizing, assigning and monitoring projects at different levels.
For more details please visit: <http://www.silicocyte.com>
Responsibility : Design and Implementation of new modules for feature enhancement in SilicoCyte.
Creation of Requirement documents.
Writing and execution of Acceptance test cases. (Product validation).
Providing training in Bioinformatics.
Technologies : VC++, Data mining, Perl,

Projects Details

Internship Project : Project Title – *Algorithms and Data Analysis in Micro array Technology*.
This project was a part of my course work, was of four months duration. I have done this project at Siri Technologies Pvt. Ltd, Bangalore.

Projects Done at IBAB

Software	: Gene prediction tool	– Written in C, it predicts exon in DNA seq.
	Conformational analysis	– Written in C, it calculates internal parameters of Biomolecules
	Document vectorization.	– Written in PERL, it compares similarity between two documents.
Bioinformatics and Cheminformatics	: Cell-signalling	– Simulation of "Metabolic Insulin Pathways "using GENESIS and KKIT.
	<i>In-silico</i> drug design	– Design of peptide based HIV-1 protease inhibitor using Accelrys softwares.
	Molecular Modelling	– To study molecular dynamics of protein using CHARMM.

Technical Expertise

Software skills	: Languages known	– C, C++, Perl, HTML, DHTML, XML
	Tools	– QT designer, Visual Basic.
	RDBMS	– MySQL, Access, Excel.
	Operating Systems	– Linux/Unix, Windows9x, 2000, XP, Irix6.5
Bioinformatics skills	: Sequence Analysis	– GCG, BLAST, FASTA, CLUSTALW
	In silico Drug design	– Cerius2 (4.6), Catalyst (4.6), InsightII. (Accelrys package)
	Micro array Data Analysis	– Worked with Acuity, Gene Spring, GeneSight, SilicoCyte and many others.
	Cell signalling	– GENESIS, KKIT
	Molecular modeling	– CHARMM, AMBER.
Others	: Biotechnology skills	– Protein chemistry, DNA isolation, Cloning, Cytogenetics techniques.

Familiarity with – Various online bioinformatics tools, HMM, Genetic algorithm, issues related to IPR like patent search and various chemical databases like WDI, NCI

Educational background

Post Graduate Diploma in Bioinformatics	Institute of Bioinformatics and Applied Biotechnology, Bangalore, May 2003, (CGPA 3.48 out of 5)
M.Sc (Bioinformatics)	Annamalai University (Ongoing)
B.Sc. (Hons.) Chemistry	Jai Prakash University Chapra (Bihar), 1996, Ist Class, (64%).
Intermediate in Science	Bihar Intermediate Education Council, Patna, 1992, IInd Class, (59%).
SSC	Bihar School Examination Board, Patna, 1990, Ist Class, (65%).

Personal details

Date of Birth	: 8 May 1975
Sex	: Male
Nationality	: Indian
Marital status	: Unmarried
Languages known	: Hindi, English, German
Strengths	: Good communication skills, hard working, positive attitude.

Reference: Available on request.

I hereby declare that all the above information is true to the best of my knowledge and belief.

Place: Bangalore

Signature:

Date: December 15, 2003

[Sushil Kumar Singh]