

Vivek Krishna

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Objective

To obtain a full time position in the field of software development that will help utilize my strong technical and organizational skills.

Education

M.S in Computer Science
Indiana University, Bloomington, IN, USA

Fall '08 – Spring '10
GPA – 3.8 on 4

B.E in Computer Science
Coimbatore Institute of Technology, Coimbatore, TN, India

Fall '02 – Summer '06
CGPA – 8.2 on 10

Technical Skills

Languages	Ruby, PHP, C, C++, Java, Python, HTML, Java Script, CSS, Ajax, C# .NET, SAS, Fortran and Cobol.
Operating Systems	Unix, Linux, Mac and Windows.
Databases Technologies	MySQL, PostgreSQL, DB2(IBM Certified), Oracle, XML, XPath, XQuery and MS Access.
CMS	Drupal and Wordpress.
Frameworks ,Tools & Web Services	Rails, Struts, Informatica, Rational Portfolio Manager(RPM)and REST.

Relevant Courses

Software Engineering, Advance Database Concepts, Data and Search Informatics, Database Internal Design, Advanced Scientific Computing, Pervasive Computing and Semantic Web.

Professional Experience

IU Cyclotron Facility, Research Assistant Jan '09 - Present
Technologies – MPI (Message Passing Interface) and Fortran.

- Computer Electric Field in a cylindrical beam consisting of millions of particles.
- Involves complex calculations and computations.
- Parallelized the code using MPI.

University IT Services (UITS), Database Application Developer Sep'08 – Dec '08
Technologies – PostgreSQL, Python and Drupal.

- Wrote several complex queries/views on an un-normalized database.

- Involved in normalization of database schema.

IBM India Private Limited, India, System Engineer

May '06 - Jun '08

Technologies - Java, JSP, Cobol, JCL, DB2, SAS Programming, Struts

- Built HR applications based on client's requirements.
- Built internal web application to maintain inventory.

Indian Institute of Astrophysics, India, Intern

Sept '05 - May '06

Technology - Java

- This aimed at modeling the data from Indo-Israel telescope. This was applied in the real world to study the properties of remote stars.

Academic Projects

Ongoing Projects

Ranking in Folksonomies

Ranking triples using data from several web 2.0 applications like delicious, twitter etc. Analyzing using HITS algorithm to rank triples and generate qualitative search results.

Technology - Ruby, Rails

Semantic Music Portal

Mash up to create a new semantic music portal using RDF data from linked open data and several other sites.

Technology - Java

Completed Projects

RDF Schema Extraction

This project helped in extracting a schema from raw RDF triples. Used Vector Space Model to find similar triples and few similarity algorithms to group triples.

Technology - Java, MySQL

RS Player Board

Built software for RS Player Board following the conventional software engineering process by gathering requirements, design, develop, test and deploy. It is web applications built to help students' find teams to play a game.

Technology - PHP, MySQL

Enhancement for giveAlink.org

Proposed a Case Based Approach to be added to the open source API Nutch for searching the bookmarks.

Solve Linear Equations

Solved the system of sparse linear equations with several variables (100,000) using Conjugate Gradient Method.

Technology - MPI, Fortran

Awards and Activities

- Rated as one of the "Top Performers" in IBM during '07- '08 (Amongst top 2%).
- Won prizes at several coding contests held at National Level.
- Member of Networks and Agent Networks (NaN). This is a research group exploring complex systems, adaptive agents, (information, biological, social) networks etc., headed by Prof. Filippo Menczer.
- Member of Bloomington Linux User Group (BLUG).