

6560 Montezuma Road
Apt #323
San Diego, CA 92115

Arjun Bhasin

abhasin@purdue.edu
(765)337-2791
www.cs.purdue.edu/homes/abhasin

OBJECTIVE

Seeking a **Fulltime** opportunity that allows me to utilize my analytical and programming skills in **Software Development**

EDUCATION

Purdue University, West Lafayette, IN

December 2011

Current GPA - 3.49 /4.0

- B.S. in Computer Science
Specialization in Software Engineering and Computer Security
- Certificate Program in Entrepreneurship & Innovation

GPA - 4.0/4.0

COMPUTER SKILLS

- C, C++, JAVA, Python, Perl, SQL, Shell Scripts, HTML5, jQuery, Ajax and CSS
- UNIX, LINUX, Mac OS X, Windows Environment, SaS, Eclipse, Netbeans, Visual Studio, VMWare, SVN, Hudson, Maven
- Experience with oAuth, Vulnerability Scanning, GPG Encryption, Nessus, Nmap

WORK EXPERIENCE

Resident Assistant, Purdue University, West Lafayette, IN

August 2011 - Present

- Planned educational programs for over 900 students
- Worked with senior management to ensure safety and health of residents

Turbo Tax Headquarters, Intuit Inc., San Diego, CA

May 2011 - August 2011

- Created a ranking and recommendation system for tiles
- Created a stand-alone client side Java Application using oAuth service
- Worked on AutoPatch service that pushes automatic updates to desktop products

Microsoft Corporation & Purdue University QA Project

January 2011 - May 2011

- Implemented a proper test plan for executing the procedure of testing ADO.net
- Tested XML Read and Write components of ADO.NET library using Spec Explorer & C#
- Created over 200 test cases using finite state models

Undergraduate Teaching Assistant, Purdue University, West Lafayette, IN

August 2010 - May 2011

- Gained project management experience by conducting labs in Python for CS 177(Programming with Multimedia Objects)
- Mentor freshmen in computer science in CS 191(Freshman Resource Seminar)
- Member of panel in CS291 for helping sophomores to find internships

Rook Consulting, Indianapolis, IN

May 2010 - May 2011

- Reduced the vulnerability assessment time by almost 40-60% by using advanced data structures
- Improved the reporting from thousands of pages to just one page report
- The tool is expected to increase the company's revenue by millions of dollars

HCL Technologies Pvt. Ltd., India

May 2009 - August 2009

- Handled multiple projects of the company using technologies like Java, C, and C++
- Worked directly under the Vice President of the company
- Was awarded best intern of the year.

PROJECTS

August 2008 - Present

C/ C++ Projects

Webserver Implementation

- Implemented a HTTP server that will allow a HTTP client to download files.

- Added concurrency using fork & threads
- Loaded **CGI Scripts** using socket programming, directory browsing with loaded images

Custom Shell

- Implemented a custom shell using fork operations, file redirection, pipes, & background processes
- Used **Lex and Yacc** for scanner and parsing in the shell
- Added features like wildcards & elimination of zombie processes

Numerical Analysis

- Implemented **Gaussian-Jordan** Elimination with Partial Pivoting
- Implemented **Newton-Raphson** method to determine roots of a function

Talk Server/Client

- Built an application that will allow multiple users to communicate with each other through a talk server
- Talk server stored the users and the messages that are exchanged in the room
- Implemented a talk client program used a terminal window as an interface to talk to other connected users

WebCrawler

- Efficient parsing of the html pages by avoiding duplicates & using **hash tables**
- Visited the URLs in a **breadth first search** manner
- Maps a URL to the corresponding index which can later be used in a search engine

Search-Engine

- Search server search's for the URLs and descriptions that correspond to a set of words
- Implemented search-engine **dictionaries** using avl trees, binary trees, arrays, & hash table
- Additional Features that calculates the average time that the search took

Text-Formatting

- Built a modern formatting tool with features like align, center, left, & right

Java Projects

Voice Over IP – Android

- Implemented communication between two or more phones running Android over the Internet
- Avoided voice delays by using advanced socket programming techniques
- Additional features included chat between users

Shortest -Path Map Search

- Built Map-Editor & Map Search using **Dijkstra's** algorithm
- Additional features included Zoom In, Zoom Out, Deletion of Location & security constraints

Dictionary Searching

- Dictionary-Searching to search for a giant dataset.
- Used multiple data structures to create an efficient algorithm

SQL- JDBC

- Developed a Java Application client that accesses an Oracle database using **JDBC**
- Course management tools to help professors and students in their academic activities

LEADERSHIP & AWARDS

- [In Purdue's President Letter](http://bit.ly/hcmjNt) (http://bit.ly/hcmjNt)
- [Interviewed by Purdue Research Foundation](http://bit.ly/cnLVOK) (http://bit.ly/cnLVOK)
- [Published an article on Purdue's Culture](http://bit.ly/hkAdRO) (http://bit.ly/hkAdRO)
- Captained National Soccer Team in India

October 2010
August 2010
September 2009
March 2007 – 2008