Shishil Kumar

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EDUCATION

University of Illinois at Urbana-Champaign, IL   **May 2014**
B.S. in Computer Science   **GPA 3.92**

HONORS AND AWARDS

Computer Programming

- **Hackathon** - Web Scraper for Texts Within Images. Fastest project of 2000 lines of self-written code in 16 hours.   **Aug 2014**
- **USA Computing Olympiad –** One of the 85 out of 1524 students to secure a perfect score   **Nov 2012**
  (http://www.usaco.org/index.php?page=nov12results)
- **Insomnia Programming –** Won 12-hour long national level algorithm contest organized by IIT-Roorkee **2009**
- **USA Computing Olympiad –** Secured 4th rank in online event of 196 participants around the world   **2006**
- **Best Algorithm Programmer in NCR Certificate**   **2006-2008**
- **Inter-school Algorithm Programming Competitions -** First position in more than 20 contests   **2006-2008**

Examples:	Exun 2007 by DPS RK Puram	Code Wars 2007 by DPS Vasant Kunj	Modem 2007 by Modern School

PROJECTS AND WORK EXPERIENCE

Freelancer.com Profile   **2014**

- **My Youtube Channel –** https://www.youtube.com/channel/UC4V04gDtHbEetAtyOd_UutA
- **125 projects in 15 months –** 100% ratings on all projects, which is very rare among other freelancers on freelancer.com
- **Best Projects –**
  - **Multiplayer Android game similar to Visual Utopia (visualutopia.com)**. Used Marmalade SDK for client-side Android app, and Aptana Studio + WAMP server for PHP/MySQL for server-side app.
  - **Automated Optimization of Google Page Rank**. Research and Derivation of algos for optimized Title and Metatag given input keywords. Implementation of algo for calculating best results of all permutations of Meta/Title words on GPU using CUDA. Free proxy scraping and implementing, and calculating proxy's performance and geo-location.
  - **Text Recognition using Artificial Neural Networks**. Researched and implemented algorithms based on Parallel Computing on GPUs as well as Distributed Computing on multiple machines. Implemented algorithms such as K-mean Clustering, Vector Space Search Engine (a twisted implementation to work on images), Recurrent Neural Networks, Edge Detection, Connected Component Labeling, etc. Reached accuracy of about 80% on Google's Captchas.
  - **Algorithmic Trading of Currency/Stocks/Bitcoin**. Researched and implemented trading algorithms on MetaTrader 4 on Forex platform, Interactive Brokers APIs, Tradewave, and CryptoTrader
- **Skills Used –** Visual C#/C++/Basic, PHP, MySQL, Java, JS, Python, C++, Coffee-Script, Auto-trading, Marmalade SDK, Corona SDK, Android Programming, iPad programming, Web Scraping/Manipulation, Google Page Rank Escalation, Algorithms, Cloud Computing, Parallel Computing, Distributed System

Artificial Intelligence project, Internship at Blue Radius Media Inc   **2012**

- Worked on developing a search engine that communicates with user and show search results based on his needs
- Implemented algorithms on Natural Language Processing and problem solving

PURE (Promoting Undergraduate Research in Engineering)   **Spring 2011**

- Research under Keun Soo, a UIUC graduate student, on Linux Fault Tolerance

RestoSNAC – A restaurant website developed by 4 students for a class project   **Spring 2011**

Paper Bird – An OpenGL software developed by 4 students under my lead   **2011**

- Applies concepts of 3D modeling and physics to let user create an object out of a paper, eg. airplane, and simulate its trajectory

Undergraduate Course Assistant   **2010-2011**

- Math 241 (Advanced Calculus)   • CS 101 (Intro to Computing)   • iPhone Workshop

Car Physics, a 3D car simulator   **2009**

- Used 2D graphics and extensive trigonometry and physics to produce 3D graphics on screen

Power Encryptor, an encryption utility   **2007**

- Developed by 3 members under my lead and won second position at interschool Software Display contest

DoIT – A programming language based on Visual Basic developed for experimental purposes   **2007**

LEADERSHIP AND ACTIVITIES

Director, Wantro Services Private Limited   **2011**

- Took an initiative to open an India-based startup company that provides web and media solutions
- Assembled team and individuals under the constraint of practically no funds or external support – Built a network of over 100 developers in India
- Hired marketers in USA on commission basis and trained them to campaign for software and web-project

- Company made an average profit of more than $300 per month starting October 2011

President, Illinois Youthwing, Indo-American Friends Society   **2011-2012**
- Entitled to raise funds, advertise and organize events for the society

Data Structures Lectures   **Spring 2011**
- Lectured a class setting of around 20 students on Minimal Spanning Tree and Shortest Path
- https://wiki.engr.illinois.edu/download/attachments/81232018/otf_sssp.pdf?version=1&modificationDate=1307125867000

Workshops on "Programming Algorithms and Problem Solving Techniques"   **2009**
- Conducted such workshops in a class setting of 50-60 students

President of CODE Club   **2008**
- Organized an inter-school IT symposium consisting of various programming, debugging and software display events