Ashutosh Mishra

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Skills

LANGUAGES: Java,C, C++, Python, MATLAB
TECHNOLOGIES: Elasticsearch, **Solr**, Redis,**Play Framework**, **MongoDB**, Lucene, **RabbitMQ**, Cleo, Amazon AWS, Git, prior experience in **OpenCV,** OpenMPI and OpenGL
OPERATING SYSTEMS:Linux (or any POSIX compliant OS), Windows
UNDERGRAD RESEARCH: Image Processing, Machine Vision, Stereo Vision, Machine Learning, Cortical Algorithms, Hierarchical Temporal Memory, Deep Learning

Work experience

Gwynnie Bee   November 2015 — May 2016
Software Developer

Thinqur   June 2015 — September 2015
Attempt at starting up

Thinqur is an online portal where people could conduct social polls and vote on questions posted by people in a fun and engaging way. (http://thinqur.com)
+ Developed entire **backend API**.
+ Handled **Devops**.
+ Worked on various technologies like **MongoDB, Play Framework, RabbitMQ, Redis, Google Analytics, AWS, Codedeploy**.
+ Also worked on UX, UI design, logo design.
+ Languages used: **Java** and **Python**

Right Relevance Inc.   September 2014 — July 2015
SDE

Worked on various technologies like **Solr, Elasticsearch, Redis, MongoDB, Cleo, RabbitMQ** and focused mainly on improving the **search** experience of users and **REST APIs**.
Also owned and managed various backend services:
+ Owned search **APIs**.
+ Implemented/Owned **email digest** generation service.
+ Owned user's **homefeeds** generation
+ Owned **Search recall and relevance**.
+ Owned website **traffic analytics**.
+ Speed optimisation of various services like user's **homefeeds** and email digest generation
+ Implemented/Owned online **query autocompletion** service (using elasticsearch) to guide the user in relevant results space.

+ Implemented synonym expansion custom plugin for Solr to improve search recall.
+ Languages used: **Java** and **Python**

Right Relevance Inc.   June 2014 — August 2014
Software Consultant

Worked on search relevance and recall.
+ Implemented custom scoring logic over Solr for better ranking.
+ Worked on query autocomplete service (using LinkedIn's OSS Cleo).
+ Worked on improving search relevance and recall.

Robotics and Machine Intelligence Lab (DTU)   November 2011 — May 2014
Member

Worked on various projects in Computer Vision and Machine Intelligence:
+ MAJOR PROJECT 2: Modelling the motions and gestures of a human hand precisely using RGB-D sensor
+ MAJOR PROJECT: Parsing Natural Scenes using Deep Learning Approach
+ Interactive 3D display - Converted 2D display to 3D display by tracking head movements.
+ Kinect based Autonomous Quadcopter
+ Came 7th (out of over 200 teams nationwide) in Freescale Cup 2012 (IISC Bangalore)
+ Skin Color Detector + Face Tracker + Hand Tracker
+ Biometric Authentication Using Infrared Imaging of Hand Vein Patterns
+ Color Based Stereo Correspondence algorithm with Adaptive Local Support
+ Software to allow users to use hand gestures to perform mouse clicks.

Hitech Robotic Systemz Ltd.   June 2013 — July 2013
Internship

+ Developed protocol for communication between Robots and PC.
+ Developed GUI to remotely control the robots.

Education

B.Tech in Computer Science and Engineering   August 2010 — June 2014
Delhi Technological University
CPI: 68.05 %

Intermediate (CBSE board)   July 2008 — June 2010
Somerville School
Percentage: 83 %

High School (ICSE board)   July 2006 — June 2008
Jyoti Niketan School
Percentage: 92 %

Undergrad Research

STEREO VISION (RESEARCH PAPER)
Co-authored a **Research paper** titled "**Color Based Stereo Correspondence algorithm with Adaptive Local Support** " which was selected for presentation in **The 2013 International Conference on Image Processing, Computer Vision, and Pattern Recognition** (**IPCV'13**), **Las Vegas, USA**. and **The 2013 IEEE Symposium Series on Computational Intelligence (IEEE SSCI'13), Singapore** and for publication in corresponding conference proceedings.

References

Sumit Taank, Co-Founder and former CEO, Right Relevance Inc.
(currently Engineering Manager at Facebook)
Email: staank@gmail.com

Mr. Rajesh Rohilla, Associate Professor, Delhi Technological University
Email: rajesh@dce.ac.in