

# HIMANSHU GARG

Software Tools Developer, Technical Writer, Volunteer Translator

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<https://github.com/himanshugarg>

## SKILLS

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<b>Programming Languages</b>	Python, Perl, JavaScript, TypeScript, C, SQL
<b>Frameworks</b>	Django, Node.js
<b>DBMS</b>	SQLite
<b>Tools</b>	Bash, Git, Excel
<b>Others</b>	Technical Content Editing, EN-HI Translation

## SUMMARY

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I am a 2002 CS graduate and I have programmed in Perl, Python, JS, SQL for prototyping and maintenance of applications for Document Analysis, Android, SDM based Family Planning via SMS, Software Packaging, Test/Build Automation, Web Application Automation and Source Code Analysis, etc. In spare time, I have volunteered for EN-HI translation and editing.

## EXPERIENCE

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### Technology Innovation Hub (TIH) on Cobotics

September 2020-Jan 2021

*Sr. Project Scientist*

*New Delhi*

- Prototyping with ROS, Google Pub/Sub, Google DialogFlow

### Assistive Technologies Group, IIT-Delhi, MHRD funded

November 2017-August 2020

*Sr. Project Scientist*

*New Delhi*

- PDF Analysis and Conversion using JavaScript, TypeScript, Node.js, Python. InDesign scripting in JS

### Cactus Communications

Apr 2019 - Sep 2019

*Freelance Editor*

*Remote*

- Peer Review and Editing of Computer Science Research

### Environmental Design Solutions

August 2017 - October 2017

*Development Consultant*

*Remote*

- Android App for interactive Energy Conservation Building Code 2017 using Kotlin, JavaScript, HTML
- <https://play.google.com/store/apps/details?id=com.edsglobal.ecbc>

### Knimbus

May 2014 - May 2014

*Development Consultant*

*Gurgaon*

- Architecture Documentation, Application Profiling for an Apache, mod\_perl application

### MathJax on Translate Wiki

May 2020 - May 2020

*Volunteer Translator*

*Remote*

- EN-HI Translation for strings of a Math application
- <https://translatewiki.net/wiki/Special:Contributions/Hgarg>

### Translators Without Borders

April 2017 - June 2017

*Volunteer Translator*

*Remote*

- EN-HI Translation of nearly 80k words of Palliative Care content
- <https://translatorswithoutborders.org/winners-6th-annual-access-to-knowledge-awards/>

**IRH, Georgetown University, USAID funded**

September 2014 - March 2017

*Technology Manager*

*New Delhi*

- Standard Days Method Based Family Planning via SMS using MySQL, Python/Django, Redis, Celery
- <https://irh.org/cycletel/>

**Adobe**

February 2009-November 2013

*Computer Scientist*

*Noida*

- Software Packaging, Test Automation using Python, XML/XSLT, SQLite, Solr

**Oracle**

Aug 2006-Feb 2009

*Application Engineer*

*Hyderabad*

- Web Application Automation using Perl, SOAP

**The LNM Institute of IT**

July 2005 - August 2006

*Lecturer*

*Jaipur*

- Teaching Algorithms, Data Structures, Computer Organization

**SEEC**

May 2004-June 2005

*Software Engineer*

*Hyderabad*

- COBOL Source Code Analysis with Flex, Yacc, C/C++

## EDUCATION

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**International Institute of Information Technology, Hyderabad**

*July 2006*

M.S. by Research in Computer Science & Engineering

**International Institute of Information Technology, Hyderabad**

*June 2002*

B.Tech. in Computer Science & Engineering

## COAUTHORED PUBLICATIONS

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**Rule based Mathematics and Layout Analysis of PDF Documents**

*DEIMS, 2021*

<https://workshop.sciaccess.net/deims2021/program.html>

**Towards generating web-accessible STEM documents from PDF**

*Web4All Conference, 2020*

<https://dl.acm.org/doi/10.1145/3371300.3383351>

**Making legacy digital content accessible at source**

*Web4All Conference, 2019*

<https://dl.acm.org/doi/abs/10.1145/3315002.3332444>

**Implementation of CycleTel Family Advice: an SMS-based service to provide family planning and fertility awareness information in India**

*mHealth Journal, 2017*

<http://mhealth.amegroups.com/article/view/14966/15110>