

# Suraj Chafle

Graduate Student at Illinois Institute of Technology, Chicago

+1.312.561.7418

@schafle@hawk.iit.edu

www.linkedin.com/in/surajchafle

## EDUCATION

### Master of Science in Computer Science

Illinois Institute of Technology, Chicago

Sep 2014 - 2016

Chicago

GPA

3.5 / 4.00

### Bachelor of Technology Electronics & Telecommunication

College of Engineering, Pune

Aug 2008 - June 2012

Pune

GPA

7.70 / 10.0

## WORK EXPERIENCE

### C Programmer - Smart Grid Research

Illinois Institute Of Technology

May 2016 - ongoing

Chicago

Automated C code generation for Power System models in Python.  
Optimized the generated code for performance.

### Software Design Engineer

Imagination Technologies

Feb 2015 - Dec 2015

Pune

- Implemented python wrappers for testing Video drivers and integrated with back-end developed in Django, Updated an RPYC based test framework to support SOAP calls
- Developed a test framework to test Video Driver API in C++

### Staff Test Engineer

Visteon Corporation

Aug 2014 - Jan 2015

Pune

Developed a framework to automate download, flashing and testing for PSA-X81 cluster; deployed on Jenkins for Continuous Integration

### Software Engineer

Robert Bosch

July 2012 - July 2014

Bangalore

Automated customized building of Navigation SDKs with CMake and Shell;  
Automated testing of 3D Graphics based navigation display using Perl and Shell

## TOP SKILLS

</> Python, C++, C, Shell, MySQL, AWS, Git, CMake, Spark, Android

## FAVORITE PROJECTS

### Optimize Document Search in distributed unsharded systems

May 2016 - ongoing Chicago

- Developed a document search engine in C++ on top of lucene, evaluated against Solr.
- Publication Accepted at SC'16.

### Distributed Job Scheduling

Apr 2016 - Apr 2016 Chicago

- Developed a job scheduler in Python using SQS & DynamoDB mimicking Animoto video creator
- Input was accepted as list of image urls and created video was stored on S3.

### Extraction of Road & Lane boundary from Sat-Imagery

Jan 2016 - Feb 2016 Chicago

Developed a tool using OpenCV in python which returns poly-lines for road and lane boundaries

### Travelogue- Django App

Mar 2015 - ongoing Bangalore

- Designed the database, front-end, APIs for future development and user-interface.
- Hosted here: <http://goo.gl/nXL9p3>

## AWARDS

AT&T Smart City Hackathon-3rd

Spot Award -Visteon