

# VIGHNESH BIRODKAR

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## EDUCATION

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| <b>MS in Computer Science</b><br><i>New York University - Courant Institute, New York, USA</i>                         | <i>2015 - 2017</i> |
| <b>B.Tech Computer Science &amp; Engineering — GPA 8.05/10</b><br><i>National Institute of Technology , Goa, India</i> | <i>2010 - 2014</i> |

## WORK EXPERIENCE

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|--|---------------------------------|
| <b>Junior Data Scientist (Part-time), NYU Centre for Data Science</b><br>• Contribute to the scikit-learn project.   | <i>September 2015 - Current</i> |
| <b>Software Development Engineer, Samsung Research India</b><br>• Embedded application development in Printers Division.<br>• Revamping the Firmware Update process. | <i>June 2014 - June 2015</i>    |

## INTERNSHIPS

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|---|-----------------------------------|
| <b>Google Summer of Code Student, Python Software Foundation</b><br>• Designed Region Adjacency Graph Data structures from scikit-image.<br>• Implemented Region Adjacency Graph based segmentation algorithms. | <i>June 2014 - September 2014</i> |
| <b>Google Summer of Code Student, SimpleCV</b><br>• Designed a Display System for local applications in Python.<br>• Designed a Display System for remote applications using Python, HTML and Javascript.       | <i>June 2013 - September 2013</i> |
| <b>Summer Intern, IIT Bombay</b><br>• Designed a Visual Programming Environment for Arduino Boards<br>• Ported the Visual Programming Environment for Windows, Linux and Android                                | <i>May 2013 - June 2013</i>       |

## PUBLICATIONS

- Manjunath, M.; Samuel, A.; Birodkar, V.; Beg, M.O., "A novel proposal for Electrical Load Online Census (ELOC)," *India Conference (INDICON), 2013 Annual IEEE* , vol., no., pp.1,6, 13-15 Dec. 2013

## PROJECTS

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|--|--------------------|
| • Developed an Online AC Circuit Simulator for <i>ekShiksha</i> .            | [ActionScript 3.0] |
| • Developed an Automatic Subtitle Finder for Movies.                         | [Python]           |
| • Developed <i>Fredo-Editor</i> , a frequency domain image editor.           | [Python]           |
| • Developed an In-Memory Data Store implementing a subset of Redis Protocol. | [C]                |

## TECHNICAL SKILLS

### **Programming Languages :**

C, C++, Java, Python, Javascript, Unix Shell-Script, MySQL, ActionScript 3.0, PHP

### **Libraries :**

scikit-learn, scikit-image, numpy, scipy, OpenCV, SimpleCV, Android SDK, Flex SDK, PIL, Box2D

### **Platforms and Environments :**

Windows, Linux, git, Eclipse, Matlab, Clearcase, Flashbuilder, Dreamweaver

## EXTRA-CURRICULAR ACTIVITIES

- Mentor for Python Software Foundation for GSoC 2015.
- Employee of the month in Samsung at October 2014
- Secured 1st place in *Automata* 2011 and 2012, a National Level Image Processing based Robotics Challenge at Engineer, NITK Surathkal.
- Secured 2nd place in *Anaglyph* 2012, a National Level Stereo-Vision based Robotics Challenge at Quark, BITS Goa