

VIGHNESH BIRODKAR

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EDUCATION

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| MS in Computer Science – GPA: 3.76/4
<i>New York University - Courant Institute, New York, USA</i> | <i>2015 - 2017</i> |
| B.Tech Computer Science & Engineering – GPA: 8.05/10
<i>National Institute of Technology , Goa, India</i> | <i>2010 - 2014</i> |

WORK EXPERIENCE

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

INTERNSHIPS

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

PUBLICATIONS

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- 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

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- 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