

VIGHNESH BIRODKAR

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EDUCATION

MS in Computer Science <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

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

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

- 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

- Developed an Online AC Circuit Simulator for *ekShiksha*. [ActionScript 3.0]
- Developed an Automatic Subtitle Finder for Movies. [Python]
- Developed *Fredo-Editor*, 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