

VIGHNESH BIRODKAR

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EDUCATION

MS in Computer Science – GPA: 3.9/4 2015 - 2017

New York University - Courant Institute, New York, USA

B.Tech Computer Science & Engineering – GPA: 8.05/10 2010 - 2014

National Institute of Technology, Goa, India

WORK EXPERIENCE

Research Assistant, Prof. Davi Geiger September 2016 - Current

- Action recognition in videos using Deep Neural Nets.
- Study the effects of background removal and optical flow for action recognition.

Junior Data Scientist, NYU Centre for Data Science September 2015 - May 2016

- Implemented machine learning algorithms for scikit-learn.
- Created the project template for scikit-learn-contrib.

Software Development Engineer, Samsung Research India June 2014 - June 2015

- Embedded application development in Printers Division.
- Revamped the Firmware Update process.

INTERNSHIPS

Summer Intern, DeepMagic Inc. June 2016 - August 2016

- Collected and augmented images.
- Designed and deployed deep networks for image recognition.

Google Summer of Code Student, Python Software Foundation June 2014 - September 2014

- Designed Region Adjacency Graph Data structures from scikit-image.
- Implemented Region Adjacency Graph based segmentation algorithms.

Google Summer of Code Student, SimpleCV June 2013 - September 2013

- Designed a Display System for local applications in Python.
- Designed a Display System for remote applications using Python, HTML and Javascript.

Summer Intern, IIT Bombay May 2013 - June 2013

- Designed a Visual Programming Environment for Arduino Boards
- Ported the Visual Programming Environment for Windows, Linux and Android

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 open source frequency domain image editor. [Python]

TECHNICAL SKILLS

Programming Languages :

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

Libraries :

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

Platforms and Environments :

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