

VIGHNESH BIRODKAR

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EDUCATION

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|---|--------------------|
| MS in Computer Science – GPA: 3.93/4
<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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| Research Assistant, Prof. Davi Geiger
• Action recognition in videos using Deep Neural Networks.
• Study the effects of imposing linear constraints on latent vectors through time. | <i>September 2016 - Current</i> |
| Junior Data Scientist, NYU Centre for Data Science
• Implemented machine learning algorithms for scikit-learn.
• Created the project template for scikit-learn-contrib. | <i>September 2015 - May 2016</i> |
| Software Development Engineer, Samsung Research India
• Embedded application development in Printers Division.
• Revamped the Firmware Update process. | <i>June 2014 - June 2015</i> |

INTERNSHIPS

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| Deep Learning Intern, Butterfly Network Inc.
• Develop deep learning algorithms for ultrasound images. | <i>January 2017 - Current</i> |
| Summer Intern, DeepMagic Inc.
• Collected and augmented images.
• Designed and deployed deep networks for image recognition. | <i>June 2016 - August 2016</i> |
| 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> |

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 open source frequency domain image editor. | [Python] |

TECHNICAL SKILLS

Programming Languages :

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

Libraries :

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

Platforms and Environments :

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