

# RITWIK DUTTA

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## SUMMARY

- ❖ Looking for a software internship for Summer 2017
- ❖ Passionate about computer programming and experienced in full-stack software development
- ❖ University of Massachusetts (Amherst), Class of 2020, in the Dept. of Informatics and Computer Science

## SKILLS

- ❖ Programming - Python, Java, C/C++, Linux CLI
- ❖ Web Dev - HTML, CSS, JavaScript, jQuery, Bootstrap, MongoDB
- ❖ IDES/VC - Visual Studio, Git, Eclipse, IntelliJ
- ❖ Graphics and A/V Design - Adobe Photoshop, Adobe After Effects, Inkscape, Audacity
- ❖ Game Dev - Unreal Engine 4

## PROFESSIONAL EXPERIENCE

DESIGN EVEREST ([DESIGNEVEREST.COM](http://DESIGNEVEREST.COM)) Data Scientist, September 2016 – Present

Utilize previous experience with big-data analysis to programmatically draw inferences and facilitate ease of customer interaction and engagement. Language used: Python

NOD LABS ([NOD.COM](http://NOD.COM)) Software Engineering Intern, May 2016 – August 2016

Maintained and improved Nod's in-house testing platform for 6-DoF positional tracking for Virtual Reality (VR) applications, and created and maintained plugins that allowed product extensibility to the OSVR and Unreal platforms. Languages used: Mainly C++, largely using the Windows, OSVR, and Unreal Engine APIs, but also Arduino C++ and Python as components for the larger systems.

LYTMUS ([LYTMUS.IO](http://LYTMUS.IO)) Software Consultant, January 2016 – April 2016

Designed a virtual-machine based platform to allow applicants demonstrate their knowledge to potential employers in a practical setting. Also implemented mechanisms for detailed feedback and analysis of the aptitude tests created. Performed quality analysis of the tests to help increase the value of test results. Languages used: Python, JavaScript, SQL, Java

FRESHPAY ([FRESHPAY.COM](http://FRESHPAY.COM)) Software Contractor, October 2015 – January 2016

Created and maintained extensions for an in-place task-management system for a digital-currency infrastructure backend. Languages used: Python and JavaScript

MAXKEYBOARD ([MAXKEYBOARD.COM](http://MAXKEYBOARD.COM)) Front-end Developer, June 2014 – July 2014

Developed custom web application that allowed customers to design and configure custom keyboards online. This simplified the process of ordering and creating a custom keyboard on phone. The application weighed less than 300KB and the entire keyboard was dynamically rendered saving resources, decreasing load time, and increasing the speed of using the application. Languages used: HTML, CSS, JavaScript

## ACADEMIC RESEARCH

CARNEGIE MELLON UNIVERSITY Summer 2015

Big-data analysis to determine fairness of scientific collaboration networks in academic conferences

Publication Link: [ritwikd.com/assets/pdf/cmupaper.pdf](http://ritwikd.com/assets/pdf/cmupaper.pdf)

GEORGIA INSTITUTE OF TECHNOLOGY Summer 2014

Development of an open-source full-stack software infrastructure for computer-aided sensor-based custom monitoring of long-term-care patients in smart homes

Publication Link: [ritwikd.com/assets/pdf/gtconf.pdf](http://ritwikd.com/assets/pdf/gtconf.pdf)

Software Link: [github.com/ritwikd/gt-dashboard](https://github.com/ritwikd/gt-dashboard)

ARCHBISHOP MITTY HIGH SCHOOL Summer 2014

An introduction to computer science - data structures, algorithms, and programming - using JavaScript

Slide Link: [ritwikd.com/assets/pdf/pres.pdf](http://ritwikd.com/assets/pdf/pres.pdf)

## PROJECTS

- ❖ PyLight - audio visualizer for programmable RGB lighting ([github.com/ritwikd/pylight](https://github.com/ritwikd/pylight))
- ❖ SummonBot - Reddit scanner to notify users when mentioned ([github.com/ritwikd/summonbot](https://github.com/ritwikd/summonbot))
- ❖ PyFastFingers - ncurses based terminal typing speed tester ([github.com/ritwikd/pyfastfingers](https://github.com/ritwikd/pyfastfingers))
- ❖ K.A.R.E - GitHub recommendation engine ([github.com/ritwikd/pyfastfingers](https://github.com/ritwikd/pyfastfingers))
- ❖ NginxPortable – portable version of nginx web server ([github.com/moezzie/nginx-portable](https://github.com/moezzie/nginx-portable))
- ❖ RPNcalc – a command-line Reverse Polish Notation calculator ([github.com/ritwikd/rpn-calc](https://github.com/ritwikd/rpn-calc))

## PERSONAL

- ❖ American citizen, native English speaker
- ❖ Enjoys programming competitions and hackathons
- ❖ Fan of country and rock music, comedy and sci-fi movies
- ❖ Avid chess and video game fan