

Ritwik Dutta

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Summary

- ◇ Looking for a software internship for Summer 2018
- ◇ Passionate about computer science and experienced in full-stack software development
- ◇ University of Massachusetts Amherst, Class of 2020, Computer Science Department

Skills

Programming	Python, Java, C/C++
Web Development	HTML, CSS, JavaScript, jQuery, Bootstrap, Flask
IDEs/VCS	Visual Studio, Git, Eclipse, IntelliJ, PyCharm
Graphic/AV Design	Adobe Photoshop, Adobe After Effects, Adobe Lightroom

Professional Experience

Apple apple.com Software Engineering Intern, May - September 2017

Worked in the software automation group to create a platform for visualization and analysis of company-wide data. **Languages used:** Python, Scala

Nod Labs nod.com Software Engineering Intern, May - 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:** C++, WinAPI, Python

Lytmus lytmus.io Software Contractor, October 2015 - January 2016

Tested a virtual-machine based platform to allow applicants demonstrate their knowledge to potential employers in a practical setting. Performed quality analysis of the tests to help increase the value of test results. **Languages used:** Python, JS, SQL, Java

MaxKeyboard maxkeyboard.com Frontend Developer, June - July 2014

Developed custom web application that allowed customers to design and configure custom keyboards online. The entire keyboard was dynamically rendered using < 300KB, 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.

Paper: <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.

Paper: <http://ritwikd.com/assets/pdf/gtconf.pdf>

Software: <https://github.com/ritwikd/gt-dashboard>

Coursework

CS187	Data Structures (data structures and algorithms)	Fall 2016
CS220	Programming Methodology (functional programming with Python)	Spring 2017
CS240	Reasoning Under Uncertainty (computational probability)	Spring 2017
M233	Calculus 3 (multivariable Calculus)	Spring 2017
CS230	Computer Systems Principles (scalable system design)	Fall 2017
CS250	Introduction to Computation (discrete math)	Fall 2017
M235	Intro to Linear Algebra	Fall 2017

Projects

PyLight	audio visualizer for programmable RGB lighting	GitHub
SummonBot	Reddit scanner to notify users when mentioned	GitHub
K.A.R.E	GitHub recommendation engine	GitHub

Personal

- ◇ American citizen, native English speaker
- ◇ Enjoys programming competitions and hackathons
- ◇ Fan of country and rock music, comedy and sci-fi movies