

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 Discrete Math	Discrete mathematics	Fall 2017
M235 Intro to Linear Algebra	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