

SUDARSHAN MURALIDHAR

(404) 797 - 4044 | smural@seas.upenn.edu | <http://www.smuralidhar.com>

EDUCATION

University of Pennsylvania – School of Engineering and Applied Science
Philadelphia, PA

Expected Graduation: May 2016

- Pursuing MSE in Computer and Information Science
 - Pursuing BSE in Networked and Social Systems (NETS) – <http://www.nets.upenn.edu> (previously named MKSE)
 - ❖ NETS is a multidisciplinary Computer Science program focused on the study of networks and online behavior
 - Pursuing minors in Economics and Mathematics
 - Cumulative GPA (as of 7 / 2015): 3.91 / 4.0; Major GPA (all Computer Science/NETS courses): 3.97 / 4.0
 - Selected Coursework (*current):

CIS 677* Advanced Topics in Algorithms	CIS 552 Advanced Programming (Haskell)
CIS505 Software and Distributed Systems	CIS511 Theory of Computation
CIS 551 Computer and Network Security	NETS212 Scalable and Cloud Computing
CIS 519* Intro to Machine Learning	CIS 700 Cryptography
 - ❖ Also: Programming and Problem Solving, Data Structures/Algorithms, Databases, Artificial Intelligence, Operating Systems*
-

SELECTED WORK EXPERIENCE

Developer – BrightRoll, LLC. (Acquired by Yahoo!)

June 2015 — August 2015

San Francisco, CA

- Worked on the Data Team, using Scala and Hadoop to process event data for video ad targeting
- Used machine learning techniques to improve video ad impression estimates for planning advertisement campaigns
- Improved the open-source Jenkins GitLab Plugin to support Workflow projects, enabling GitLab-triggered build automation

Head Teaching Assistant – NETS212 (Scalable and Cloud Computing)

August 2014 — Present

University of Pennsylvania – Philadelphia, PA

- Teach Cloud Computing Fundamentals (AWS, Hadoop, etc.), create and grade assignments/exams, and conduct weekly office hours
- Previously was a Teaching Assistant for CIS120 (Programming Languages and Techniques II) – January 2013 – May 2014

Chief Technical Officer – LeapYear Innovations, Inc. – <http://leapyear.io>

August 2014 — March 2015

Philadelphia, PA

- Leapyear is a technology/consulting startup that uses network science and algorithmic game theory research to solve industry problems
- Oversaw and worked with team of ~5 programmers laying the foundations for projects in privacy, graph theory, and mechanism design

Developer – Bloomberg L.P.

May 2014 — August 2014

New York, NY

- Worked on the Hadoop Software Infrastructure Team to integrate OpenStack Sahara with existing IaaS platform
- Wrote shell scripts, Contributed to Python open source projects, and Created Chef infrastructure automation recipes in Ruby

Developer – 500Red – <http://www.500red.com/>

January 2014 — May 2014

Philadelphia, PA

- Worked part time (~20 hours / week) designing software for building browser extensions, using JavaScript and Python

Developer – Shodogg, LLC. – <http://www.shodogg.com>

October 2012 — August 2013

New York, NY

- Built backend video/media sharing tools and APIs in PHP and Java, worked on front-end with JavaScript/jQuery/AJAX

Founder, President – 121Reach, Inc. – <http://www.121reach.org>

August 2011 — May 2014

Johns Creek, GA

- Founded a nonprofit tutoring organization in which high school students mentor middle school children every week
- Expanded organization to span 6 schools in Georgia; Has impacted over 700 middle school students in 2 years
- Recognized by **We Are Family Foundation** as a 2013 Global Teen Leader: <http://threedotdash.org/the-summit/>

Freelance Web / Software Designer – <http://www.smuralidhar.com/portfolio>

June 2009 — Present

- Started business to design / maintain websites and custom software for individual and small business clients nation-wide
-

TECHNICAL SKILLS

Skilled Programmer (Java, Scala, Python, OCaml, Haskell, Shell Scripting, some Ruby)

- Designed several programs for both personal and business use in Java, Scala, Python, and Ruby

Significant Experience with Web Technologies

- Confident in graphic design, HTML, CSS, PHP, MySQL, Flash, JavaScript / jQuery

Familiar with Networked Systems and Cloud Computing

- Experienced with Big Data technologies (eg. Hadoop), as well as AWS and OpenStack tools, software, and infrastructure
-

INTERESTS

- Enjoy playing flute, practicing Taiko Karate, playing chess, watching good movies, card tricks, and standing on high rooftops.

Refer to <http://www.smuralidhar.com> for my Project Portfolio