

# Jonathan T. Cho

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## Education

**University of Pennsylvania** - School of Engineering and Applied Science, Philadelphia, PA

*Bachelor of Science in Engineering in Computer Science; May 2017*

Minor: *Statistics, Nanotechnology*

Coursework: Networks & Security, Networked Systems, Advanced Algorithms, Programming Abstractions in C++, Data Structures and Algorithms, Computer Organization and Systems, Interpreters & Compilers, Mathematical Foundations of CS, Expert Systems, Linear Algebra, Ordinary & Partial Diff. Eqns., Linear Algebra, Stochastic Processes

Honors: Intensive Certificate in Computer Science from **Stanford University**.

## Technical Skills

Programming/M.U. Languages: Java, C, Python, Javascript, C++, Swift, HTML,  $\text{\LaTeX}$   
APIS/Tools: AngularJS, Node.js, D3, MongoDB, Socket.IO  
Programs: Photoshop, Illustrator, Mathematica, Solidworks, Matlab  
Concepts: Computer Vision/Image Processing, Expert Systems, Data Mining, Networks

## Recent Projects

<b>PAUSE</b> Dec. 2014 - Present	Design and build a Chrome extension that replaces web browser new tab page with RPG-esque status screen with self-drawn pixel art.
<b>NALDA Easy Travel</b> Aug. 2014 - Jan. 2015	Commissioned to design and build website for a Cancun travel guidance service for college students. Built using the MEAN stack and Yeoman.
<b>BST Visualizer</b> Nov. 2014	Built an Angular/D3 app to visualize insert operations on various binary search trees.
<b>Colorfeel</b> Oct. 2014	Developed in 24 hours an iOS mood-journaling app using Swift that allows users to document their feelings with colors over time. HackMIT Fall 2014 submission.
<b>Aiura RPG Mod</b> Jul. 2012 - Aug. 2013	Developed a Minecraft multiplayer mod for a popular online server as a side project for a year. Used Java and Java Reflection.
<b>Ant Blob Tracker</b> Jun. - Jul. 2012	Independently developed computer vision software to model ant group behavioral dynamics at <i>Penn State</i> . Self-taught C++ and OpenCV over the course of 4 weeks. <b>Penn State University</b> , <i>Center for Infectious Disease Dynamics</i> , <a href="#">David Hughes</a> Lab

## Work Experience

Dec. 2014 - Present	Teaching Assistant at <b>The University of Pennsylvania</b> <i>Data Structures and Algorithms [CIS121]</i> Teach recitation section for CIS121 as well as hold weekly office hours. Design programming assignments as well as write unit tests for grading in <i>Java</i> . Proctor and grade exams.
Aug. 2013 - Present	Senior Informational Technology Advisor at <b>The University of Pennsylvania</b> <i>College Houses and Academic Services</i> Assist fellows with tech issues and staff the help desk for 8-10 hours per week and handle more challenging cases. Apply a wide range of high-level device and network troubleshooting practices.
Aug. 2012 - Jan. 2013	Volunteers' Education Supervisor and Shift Leader at <b>The Good Samaritan Hospital</b> , San Jose, CA <i>Junior Auxiliary</i> Managed volunteering shift of 8 people every week. Taught and led training of new volunteers (50/yr). Headed new initiative for volunteer cleaning and interaction with patients, to increase volunteer responsibility.