

Diptodip Deb

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OBJECTIVE	Research or internship in artificial intelligence or machine learning.	
EDUCATION	<i>Freshman Candidate for Bachelor of Science: Computer Science</i> Georgia Institute of Technology, Atlanta, GA, USA Concentration: Intelligence and Theory Current GPA: 4.0	<i>Expected Spring 2018</i>
SKILLS	<i>Computer Languages:</i> Java, C, MATLAB, Python, \LaTeX , (learning Haskell and Lisp) <i>Programs:</i> Vim, Adobe Photoshop, Premiere, and After Effects, Microsoft Office <i>Operating Systems:</i> *nix, Arch, Ubuntu, OSX, Windows <i>Lab Equipment:</i> FTIRS (Fourier-transform infrared spectrometer), SEM (scanning electron microscope) <i>Spoken Languages:</i> English, Bengali, Spanish <i>Instruments:</i> Tabla (Indian percussion instrument)	
PROJECTS	<i>Graf: Automated Cell Counting Software</i> Independent Project	<i>Winter 2015 - present</i>
	<ul style="list-style-type: none">• Uses watershed segmentation and Canny edge detection for image processing.• Lab software that is usable: UI built using Electron.	
	<i>Georgia Tech AI Club Autonomous Car Project</i> Georgia Institute of Technology, Atlanta, GA, USA	<i>Spring 2016 - present</i>
	<ul style="list-style-type: none">• Working on self-navigating Buzzmobile (car used in homecoming parade).• Uses computer vision techniques and the OpenCV library.	
	<i>Georgia Tech AI Club Tetris Project</i> Georgia Institute of Technology, Atlanta, GA, USA	<i>Fall 2015</i>
	<ul style="list-style-type: none">• Worked on automatic tetris playing bot in Python.• Uses Monte Carlo trees and depth first search.	
	<i>Highschool Research</i> NanoScience Technology Center, University of Central Florida, Orlando, FL, USA	<i>Summer 2014</i>
	<ul style="list-style-type: none">• Designed and optimized localized surface plasmon resonance sensors for label-free diagnostics.• Constructed LSPR sensor chips via UV lithography.	
EXPERIENCE	<i>Undergraduate Researcher I</i> Paaby Lab, Georgia Institute of Technology, Atlanta, GA, USA	<i>Fall 2015 - present</i>
	<ul style="list-style-type: none">• Quantitative genetics using <i>C. elegans</i> model for natural gene variation.• Using MATLAB machine learning approach to counting cells (random forest algorithm).	
	<i>REU Researcher</i> BigDataX REU, DataSys Lab, Illinois Institute of Technology, Chicago, IL, USA	<i>Summer 2016</i>
	<ul style="list-style-type: none">• Theoretical computer science research in virtual machine migration.• Worked on combinatorial optimization techniques.	
ACTIVITIES/ LEADERSHIP	<i>Volunteering:</i> Over 200 hours assisting patients post-op as lead volunteer on cardiac nursing floor and handling medicine packaging at hospital pharmacy at Orlando Regional Medical Center in Orlando, FL, USA.	
	<i>Activities:</i> <ul style="list-style-type: none">• Vice Chairman of Georgia Tech Theoretical Computer Science Club (Big O). <i>2016 - present</i>• Computer use health app using computer vision at HackIllinois 2016.• 4 years of competitive math and science in high school.	