

# James Mullenbach

jamesmullenbach.org • james.mullenbach@gmail.com • github.com/jamesmullenbach • (678) 448-8764

EDUCATION	Master of Science in Computer Science (Specialization: Machine Learning), Georgia Institute of Technology (Atlanta, Georgia)	Expected May 2018
	Bachelor of Science in Computer Science (Concentrations: Intelligence & Media), Bachelor of Science in Physics, Georgia Institute of Technology (Atlanta, Georgia)	December 2016
	GPA: 3.93/4.00	
	Certificate in <i>Data Manipulation at Scale: Systems and Algorithms</i> , Coursera (U Washington)	
RELEVANT EXPERIENCE	Software Engineering Intern Urjanet	May 2016 - Aug 2016 Atlanta, GA
	<ul style="list-style-type: none"><li>Developed, debugged, tested, and deployed various new features for a group of cloud microservices, such as distributed logging and aggregation.</li><li>Scripted critical money-saving AWS tasks such as upgrading API usage and cleaning unused EC2 resources in bash and Python to keep spending lean.</li><li>Wrote and performed integration, end-to-end, and load tests with JUnit and JMeter to identify issues with cloud resources and scalability.</li></ul>	
	Undergraduate Research Assistant Borodovsky Computational Genomics Laboratory	Aug 2015 - May 2016 Atlanta, GA
	<ul style="list-style-type: none"><li>Performed thorough data aggregation, cleaning, and statistical analysis in Python towards developing machine learning algorithms to identify genes using ribosome profiling data.</li><li>Presented weekly research updates detailing progress, difficulties, and future work.</li></ul>	
	Software Engineering Intern Urjanet	May 2015 - Aug 2015 Atlanta, GA
TECHNOLOGY SKILLS	<ul style="list-style-type: none"><li>Upgraded data extraction operation to asynchronously pre-process PDF images, employing AWS and enhancing scalability for expected influx of ~20,000 image sets per month.</li><li>Worked with an agile team to ship first release of both a client web portal and RESTful API, making UI/UX design decisions to improve the overall client experience.</li></ul>	
	Undergraduate Research Assistant Georgia Tech School of Physics	May 2013 - May 2015 Atlanta, GA
	<ul style="list-style-type: none"><li>Built apparatus to study dynamics and bifurcations of two-dimensional fluid flows.</li><li>Programmed GUI and utilized image processing to study phagocytosis of white blood cells.</li></ul>	
SELECTED PROJECTS	Programming Languages: Java, Python, MATLAB, JavaScript, C, SQL Technologies: Spring, AWS, Linux/bash, Git, jQuery, MapReduce, Play!, Spark	
	Natural Language Processing directed study - Python (numpy, scipy, matplotlib, nltk) <ul style="list-style-type: none"><li>Solve problem sets and participate in a directed study in NLP with Professor Jacob Eisenstein.</li></ul>	
	Relevant Image Suggestions - Python Flask, Heroku, NLTK, various APIs (Team Project) <ul style="list-style-type: none"><li>Built an interactive Chrome Extension to display suggested images to accompany a body of text, using Google Search, face detection, and NLP techniques.</li></ul>	
	WorkReadyGrad mobile application - AngularJS, HTML/CSS, Git (Team Project) <ul style="list-style-type: none"><li>Developed a hybrid mobile application prototype designed to prepare college students for post-graduate life. Responsible for social network sharing and several individual features.</li></ul>	
SELECTED ACTIVITIES & LEADERSHIP	President, Delta Sigma Phi	Nov 2015 - Nov 2016
	<ul style="list-style-type: none"><li>Oversee all organization functions, set and maintain alignment towards goals, and lead weekly Executive Board and general chapter meetings for over 60 members.</li><li>Developed data-based brother review process to help members identify strengths and set goals.</li></ul>	
	New Student Orientation Leader (FASET), Georgia Tech	Mar 2016 - Aug 2016
	<ul style="list-style-type: none"><li>Facilitate orientation activities and acclimate new students to the campus environment.</li></ul>	
	Campus Tour Guide, Georgia Tech	Sep 2013 - Dec 2015
	<ul style="list-style-type: none"><li>Represented Georgia Tech to over 60 prospective students, parents, and visitors per month through tours tailored to accommodate unique needs and requests.</li></ul>	