

Atlanta, Georgia

GEORGIA INSTITUTE OF TECHNOLOGY IS A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA

APPLICATION FOR GRADUATE ADMISSION

PERSONAL INFO	ORMATION						
Full Legal Name:	BOKER		Michael	David			
La	ast name (Family	name)	First name (Personal Name)	Middle Name	Suffix		
Preferred First Na	me: Michael		_				
Will we possibly re	eceive record	s for you under any o	other name? □YES ■NO				
If yes, wh	at name?						
		First	Middle	Last			
Gender: ⊠ Male	□Female	Date of Birth: 03-2	25-1991 mm/dd/yyyy	Place of Birth: Warren, States of	OH, United of America		
Permanent Addre	ss: Street	202 Pheasant Run	1				
	City	Warren, OH	Country	y United States of Ame	erica		
	Mail Co	ode 44484	Permanent Tele	ephone <u>3305065690</u>			
	F-mail	Address: bbokerr6@		•			
Current Address:	This ac	This address is valid until: 07-15-2017 mm/dd/yy					
Present Location	Street	Street 895 N 6th St					
		Apt 302					
	City	Columbus, OH	Country	y United States of Amer	rica		
	Mail Co	ode 43201	Current Teleph	one <u>3305065690</u>			
Degree Objective	: Masters		Campus: Online	Admit Term: F	all 2017		
Graduate Major: _	Master of Sc	ence in Computer S	cience - Online				
Are you a: First-ti	ime graduate	student					
		admission, been en on on on on on on on on on one of the one of th	rolled as a student, or been o	otherwise affiliated with (Georgia Tech		
gtID Number:							
If your degree obj	ective is Mast	ers, do you plan to p	ursue a PhD degree in the fu	iture? □YES ☑NO			
If Yes, when?		_ If 'Other' please e	xplain:				

A DDI IC	ATIONE	OD CDA	DUATE	A DIMICCIONI
APPI IC	ΔΙΙΟΝ Ε	OR GRA	DUAIF	ADMISSION

Page 2

Are you a current Georgia Tech graduate student? ☐ YES ☐NO		
Are you seeking to CHANGE graduate degree programs or to ADD a secondary degree program?		
□YES □ NO		
FUNDING		
Do you wish to be considered for Financial Assistance? Do you require Financial Assistance in order to Attend Georgia Tech?	□YES MINO □YES MINO	

ACADEMIC HISTORY

College Code	Name of Institution	City	Attend From	Attend To	Degree	Degree Date	Major	GPA
001592	Ohio State Univ Columbus	Columbus	09-2009	05-2014	BS	05-2014	Computer Science and	3.54

TEST SCORES Please indicate the date you have taken OR will take the required test(s).

TEST	DATE	V	%	Q	%	AW	%	TOTAL SCORE
GRE								
GRE SUBJECT		TOPIC:						
GMAT								
TOEFL								

RECOMMENDATIONS

The following individuals have agreed to provide recommendations on my behalf.

NAME	EMAIL ADDRESS	INSTITUTION
Krishnajith Krishnankunji	jithkris@yahoo.com	Nationwide Insurance
Perumal Ramasamy	ramasamy.12@osu.edu	The Ohio State University
Patty Weinrick	Patty_Weinrick@anfcorp.com	Abercrombie And Fitch

SELF-REPORTED BACKGROUND DISCLOSURE

Georgia Institute of Technology is committed to maintaining a safe environment for all members of our community. All applicants must answer these questions. An affirmative answer to any of these questions does not automatically bar admission to the institute, but does require review. You are required to provide an explanation for each instance you answer Yes. The statement will be used in the review process.

swer	r Yes. The statement will be used in the review process.		
1.	Have you ever been convicted of a crime other than a minor traffic violation?	X YES	□NO
	If yes, please briefly explain here.		
	August, 2011: I pled guilty to misdemeanor open burning. October, 2015: I was charged with driving under the influence of alcohol. The charge was reduced and I pled guilty to physical control of a vehicle while under the influence. I have not consumed a drink in the 16 months since.	ed,	
2.	Are there any criminal charges currently pending against you?	 □YES	M NO
	If yes, please briefly explain here.		
3.	Have you entered a plea of guilty, a plea of no contest, a plea of nolo contendere, an Alford plea to a criminal charge, a plea under a first offender act?	□YES	MNO
	If yes, please briefly explain here.		
4.	Do you currently have disciplinary or academic misconduct charges pending against you from a high school, college or university?	 □YES	⊠NO
	If yes, please briefly explain here.		
5.	Have you ever been disciplined, suspended, or expelled for conduct code violations from a high school or post-secondary educational Institution?	MYES	□NO
	If yes, please briefly explain here.		
	In August of 2011, I was put on disciplinary probation after being charged with open burning. I w caught holding a lighter to a futon in my dumpster. I claimed that the futon was made with flame retardant material, and my roommate did not believ me. I foolishly felt the need to prove it.		

CITIZENSHIP AND ET	HNICITY INFORMATION	
⊠ U.S. Citizen □Non-US Citizen	Country of Citizenship (if not US):	
	Do you hold citizenship in any other country? Other Country of Citizenship:	TYES NO
	Are you currently in the U.S. or will travel to the U.S. with a visa prior to your potential enrollment at Georgia Tech?	□YES □NO
	If so, what is your current Visa type? □F-1 □J-1 □Other	
	Sevis ID (if available):	_
	Will you require a student visa to study at Georgia Tech?	□YES □NO
	If yes, □F-1 □J-1	
Note: Permanent Res	sidents are classified as Non-Citizens until a Permanent Resident Card is	provided.
•	and other purposes allowed by law.	to satisfy federal
Are you Hispanic or Lat	tino? DYES MINO	
Check all that categoriz	ze your race.	
(Note: Regardless of your an	swer to the previous question, please mark one or more races to indicate what you consider	yourself to be.)
□ Asian□ Native Hav	ndian or Alaskan Native vaiian or Pacific Islander frican American	
RESIDENCY (Requi	red for US/PR only – International applicants please leave blank)	
US State of Legal Resid	dence OH	
If GEORGIA, Country of	of Residence	
•	a legal resident of the State u expect to receive in-state tuition fee rates?	□YES □NO
	required to complete the Georgia Residency Application which is a part of this application. Ond a notation of your residency status will be entered in the applicant database and will app	
	utions of higher learning in the State of Georgia will be required to submit documentation pro t wishes to be considered for in-state tuition rates, he/she must also present	ving that they are lawfully in the
U.S. MILITARY INFOR	MATION	
Are you currently active Reservist in the US Arn	e duty, a veteran, member of the National Guard or ned Forces? If yes, please specify.	TYES NO
If Active Duty, which Br	ranch? Home of Record State?	

Are you the spouse or dependent child under the age of 24 of someone who is currently active duty, a veteran, member of the National Guard or Reservist in the U.S. Armed Forces?

NON-U.S. MILITARY/GOVERNME	ENT INFORMATION		
Are you currently active duty, veteral Non-US Military armed force?	an, a member of the National Guard, or a	a Reservist in any □YES	MNO
Country:			
Branch:			
Are you currently employed or on le	eave from any Non-US Government Ager	ncy? □YES	MNO
Country:			
Agency/branch:			
ADDITIONAL INFORMATION			
Are you currently enrolled in any ot	her Educational Institutions?	□YES	MNO
Country:			
Name of Institution:			
Are you currently employed or on le	eave of absence from employment?	MYES	□NO
Country: <u>U</u>	nited States of America		
Name of Company: S	ogeti USA		
CERTIFICATION			
misrepresentation herein may result	ed in this application is true and complete It in automatic rejection of my application e Academic honor Code of the Georgia Ir	to Georgia Tech. If admitted,	
Signature of Applicant Michael Da	vid BOKER	Date 02-13-2017	
			Rev 11/2016

PART 4 GEORGIA TECH ONLINE MASTERS IN COMPUTER SCIENCE APPLICATION

Na	me: Michael BOKER
,	How did you learn about Georgia Tech's Online Master of Science in Computer Science program? Social media
2.	List other graduate programs to which you have applied. (optional)
	UNIVERSITY NAME

3. Briefly describe your eventual career objective. Your space is limited to 150 characters (e.g.,

I want to become a machine learning engineer and work on artificially intelligent software systems

University Professor, Industry Researcher, etc.).

 Please describe your background (academic and extracurricular) and experience, including research, teaching, industry, and other relevant information. Your space is limited to 2000 characters.

I received my B.S. in computer science and engineering from Ohio State in 2014, graduating cum laude.

While in school, I had two internships with Strategic Insurance Software, a Columbus-based company that produces insurance agency management software. I worked on C# packages for importing data from the schemas of our competitors, to be used in on-boarding new customers.

I had a final internship with JP Morgan Chase, where I wrote a Java utility for converting flat mainframe files to collections of Java Objects and vise versa. I also participated in a program after work hours in which I worked with a team to develop a cross-platform mobile application for a local non-profit organization.

After graduation, I began working for Nationwide Insurance. For almost two years, I did full stack development on customer facing web applications for selling property and auto insurance. In this role, I gained experience in Java web development, and greatly improved my front end development abilities. I also worked on a batch process for creating flat files from data for new customers. After taking an interest in graph databases and the Neo4j platform, I created a proof of concept for using a graph database to better predict the intentions of visitors to our application, and thus better tailor their experience.

I left Nationwide Insurance in Spring of 2016 to begin working as a consultant at Abercrombie & Fitch. In this role, I have built multiple web applications for internal use in inventory management, and I have gained experience with taking an application from nothing to production. I have been part of the design and planning phases of these projects, as well as the lead developer on my team.

Recently, in my spare time, I have completed the Coursera class on machine learning taught by Dr. Andrew Ng. I have also completed approximately two thirds of my Udacity machine learning nanodegree, which I will have finished by the summer.

Michael David BOKER

Statement of Purpose

Data is everywhere, and our ability to collect and utilize data is increasing at a tremendous rate. Machine learning, while not a new science, has recently been enabled at never-before-seen scales thanks to advancements in technology. I believe that there is great potential for the use of machine learning across many industries, and I want to participate in the effort to harness this potential.

When I first learned about graph databases, I had an idea to create a model of the global economy using a graph. This model would take into account the values of every facet of the economy: currencies, commodities, stocks, loan shares, and so on. It would also monitor every conceivable factor that affects the economy, such as weather events, election results, and scientific discoveries. Quickly this idea began to seem unrealistic. Nonetheless, I started to think about what would be required to implement such a model, and my answer was a lot of data combined with a lot of people. The people could find trends in the data and create relationships in a graph. The idea still seemed farfetched, and struck me as something that would require hundreds of experts at an investment bank. Then I realized that the tasks of gathering and analyzing the data could be done algorithmically, and I began to think about machine learning.

Artificial intelligence was an interest of mine at the end of my undergraduate studies. I took a course on automata and the limits of computability in my penultimate semester. The study of state machines had me thinking about ways that software could mimic the human mind, and I found it very interesting. In my final semester, I took an introduction to artificial intelligence course, which contained assignments for implementing simple path traversal algorithms, including A* search. This course, though elementary in the realm of artificial intelligence, really sparked my interest in the domain. Combining the lessons about heuristics from this course with what I had learned in the automata course, I began thinking of ways a hyper-heuristic could be used to algorithmically improve the performance of a lower system. I was not familiar with the phrase "machine learning" at the time, but it is exactly what I was pondering.

With this newfound interest, I began looking into the pursuit of artificial intelligence work for a career. I was discouraged to find that it was difficult to find work in the field without a PhD. More school was not a practical option for me at the time. My interest in the field lay dormant in my mind for almost two years, until I began to think about it again in the context of my economic model idea. At this point, I decided to pursue some knowledge on my own, and began my Udacity nanodegree. To supplement the high level knowledge from the nanodegree, I completed the Coursera machine learning course. This course explained more of the mathematics and implementation behind the algorithms, demystifying some of the magic.

Shortly after beginning the nanodegree, I decided that I want to focus on this field for my career. I still had the obstacle of needing to maintain a source of income while pursuing further education, which is what led me to the OMSCS program. I am very excited by the fact that I can continue to work a full time job, while pursuing a master's degree from a school as prestigious as Georgia Tech. My hope is that earning my masters degree through the OMSCS program will give me the knowledge to thrive in the field of machine learning, as well as the degree to get my foot into the door. I will be finishing my nanodegree soon, and I am pre-enrolled to take the new nanodegree offering in deep learning. My goal is to get an entry level data scientist or machine learning position this summer. This, combined with the education I would receive through the OMSCS program, would allow me to learn at a very high rate and find my place in this exciting industry.