

APPLICATION

This form has been formatted for review by Admission Committees. Your social security number, if provided on your application, has been omitted for security reasons. Demographic data pertaining to financial, historical, physical, and mental health circumstances and/or limitations has also been omitted.

Academic Program: Computer Science Admit Term: Fall 2017

Degree: Master of Computer Science (without thesis) Submit Date: _____

BIOGRAPHICAL INFO

Name: Denny Rual Anderson III
First/Given Middle Last/Family Suffix
D.J. Birthdate: 03/25/1997 Gender: ☐ Female ☒ Male
Preferred Name

Email Address: dra2zp@virginia.edu

U.S. Status: U.S. Citizen Primary Citizenship: United States Visa: _____

Language: English Applying for Virginia In-State Tuition Y

ACADEMIC SUMMARY

Research Interest: Cryptography
Security
Algorithms

Institution	Degree	Degree Date	Major	GPA
University of Virginia	XBA	05/22/2017	Computer Science	3.53
Lord Fairfax Community College	n/a	05/16/2015	Science	4.00

GRE General Exam						
Date	Scaled Verbal	%	Scaled Quantitative	%	Analytical Writing	%
08/2016	161	88	164	87	5.0	93
Future Test Date						

Undergrad GPA	3.53
Last 2 yrs GPA	3.53
Major GPA	3.77
Int GPA	

TOEFL or IELTS						
Format	Date	Reading	Listening	Speaking	Writing	Total
Future Test Date						

Faculty Interest	

Institution: University of VirginiaDates: 08/25/2015 05/12/2017

From

To

Country: USACity: CharlottesvilleState/Province VADegree: Bachelor of ArtsDate: 05/22/2017GPA: 3.53Major: Computer ScienceSecond Major/Minor: MathematicsResearch Topic (if applicable): _____

_____Institution: Lord Fairfax Community CollegeDates: 08/22/2012 05/30/2015

From

To

Country: USACity: MiddletownState/Province VADegree: Not ApplicableDate: 05/16/2015GPA: 4.00Major: Science

Second Major/Minor: _____

Research Topic (if applicable): _____

Institution: _____

Dates: _____

From

To

Country: _____

City: _____

State/Province _____

Degree: _____

Date: _____

GPA: _____

Major: _____

Second Major/Minor: _____

Research Topic (if applicable): _____

Institution: _____

Dates: _____

From

To

Country: _____

City: _____

State/Province _____

Degree: _____

Date: _____

GPA: _____

Major: _____

Second Major/Minor: _____

Research Topic (if applicable): _____

FINANCIAL AID

Applying for departmental financial aid? _____ Admit without aid? _____

Applying for Virginia in-state tuition rates? Y Virginia city or county? Frederick

Applicant has or will apply for external fellowships? _____ If yes, please explain:

If Biomedical Engineering Ph.D.: If you applied to the Ph.D. program, would you consider admission to the Master of Science (with thesis) program? ☐ Yes ☒ No

If Civil, Biomedical, Electrical, Mechanical and Aerospace, Materials Science, or Systems Engineering M.S. or Ph.D.: If you applied to the M.S. or Ph.D. program, would you consider admission to a self-supported M.E. degree? ☐ Yes ☒ No

Applicant will be on leave from a business, military or other organization? N

Applicant will be receiving other support from government (including military) or industry? _____
If yes, please explain:

Will employer sponsor tuition? N

ADDITIONAL INFORMATION

Previous or other name: _____
Other/Former Names From To

Previous Application? N Year: _____ Accepted? _____ Program: _____

Source of Application: UVa Student

Applying in affiliation with NIA? _____

Are you applying to any other engineering department(s) or School at U.Va. this year? ☐ Yes ☒ No If yes, to what program?

Criminal conviction or charge pending or conviction? N If so, explain:

Disciplinary action? N If so, explain:

Name: Zoran Grujic Waived right of review? Yes
 Address: P.O. Box 400137 Submitting on-line? Yes
 Line 1
 Line 2 United States Country
Charlottesville Virginia 22904
 City State/Province Zip/Postal Code
 Title: Professor Relationship: Professor
 Employer: University of Virginia Telephone: 14342437701
 Email Address: zg7c@virginia.edu

Name: Gabriel Robins Waived right of review? Yes
 Address: P.O. Box 400740 Submitting on-line? Yes
 Line 1
 Line 2 United States Country
Charlottesville Virginia 22904
 City State/Province Zip/Postal Code
 Title: Professor Relationship: Advisor
 Employer: University of Virginia Telephone: 14349822207
 Email Address: robins@cs.virginia.edu

Name: Bulent Tosun Waived right of review? Yes
 Address: P.O. Box 400137 Submitting on-line? Yes
 Line 1
 Line 2 United States Country
Charlottesville Virginia 22904
 City State/Province Zip/Postal Code
 Title: Instructor Relationship: Professor
 Employer: University of Virginia Telephone: 14349248946
 Email Address: bt5t@virginia.edu

Name: _____ Waived right of review? _____
 Address: _____ Submitting on-line? _____
 Line 1
 Line 2 _____ Country

 City State/Province Zip/Postal Code
 Title: _____ Relationship: _____
 Employer: _____ Telephone: _____
 Email Address: _____

Mailing Address valid until: _____

1114 Pinetop Road

Line 1

Line 2

United States

Line 3

Country

Gore

Virginia

22637

City

State/Province

Zip/Postal Code

Home Address

1114 Pinetop Road

Line 1

Line 2

United States

Line 3

Country

Gore

Virginia

22637

City

State/Province

Zip/Postal Code

Telephone Numbers

Primary: 5403278657 Alternate: _____

Work: _____ Fax: _____

IF MASTER OF ENGINEERING

Current Employer: _____

Academic Load: ☒ Full-Time ☐ Part-Time ☐ Not ApplicableApplying for admission to the ME/MBA dual degree program? ☐ Yes ☒ No

FOR CIVIL ENGINEERING APPLICANTS ONLY: Academic Interest _____



APPLICATION FOR VIRGINIA IN-STATE EDUCATIONAL PRIVILEGES

School: Computer Science

Admit Term: Fall 2017

SECTION A

ALL APPLICANTS COMPLETE THIS SECTION.

Name: Denny Rual Anderson III
First/Given Middle Last/Family Suffix

Sex ☐ Female ☒ Male Birthdate: 03/25/1997
mm/dd/yyyy

Citizenship Status: U.S. Citizen

Telephone Information (Country Code if not U.S.), Area Code, and Number: 5403278657 5408582806
Primary Alternate

Email Address: dra2zp@virginia.edu

SECTION B

APPLICANTS DO NOT COMPLETE THIS SECTION.

To be completed by parent, spouse, or legal guardian of financially dependent applicant. If the applicant's parents are divorced or separated, either the parent living in Virginia or the parent who provided substantial financial support or the parent who claimed the applicant as a dependent for income tax purposes for the past year must complete sections B and C.

Legal Name: Denny Rual Anderson II
First/Given Middle Last/Family Suffix

Relationship to applicant: Father Marital Status: Divorced

Citizenship Status: U.S. Citizen

Telephone Information (Country Code if not U.S.), Area Code, and Number: 5405507003
Cell Alternate

Email Address: _____

Will you have provided over half of the applicant's financial support for the year prior to the term in which the applicant intends to enroll? ☒ Yes ☐ No

Will you have claimed the applicant as a dependent on your federal and Virginia income tax returns for the tax year prior to the term in which the applicant intends to enroll? ☒ Yes ☐ No

SECTION C

TO BE COMPLETED BY THE APPLICANT'S PARENT, SPOUSE, OR LEGAL GUARDIAN IF THE APPLICANT IS FINANCIALLY DEPENDENT OR BY THE APPLICANT ONLY IF FINANCIALLY INDEPENDENT.

How long have you lived (physical presence) in Virginia? 46 3
Years Months

Where have you lived (physical presence) in the last two years?

05/25/1995 10/29/2016
From To

1114 Pinetop Road

Current Address Line 1

Current Address Line 2

Gore

City

Virginia

22637

State/Province

Zip/Postal Code

From

To

Previous Address Line 1

Previous Address Line 2

City

Virginia

State/Province

Zip/Postal Code

If you have not lived in Virginia within the last two years, have you ever lived in Virginia? ☐ Yes ☐ No

From

To

Where have you been employed for at least one year prior to the term for which you intend to enroll?

05/22/2006

10/29/2016

42

Current Employment Begin Date (mm/dd/yyyy)

Current Employment End Date (mm/dd/yyyy)

Hours/Week

Axalta

Front Royal

Virginia

Current Employer Name

Current Employer City

Current Employer State

Previous Employment Begin Date (mm/dd/yyyy)

Previous Employment End Date (mm/dd/yyyy)

Hours/Week

Previous Employer Name

Previous Employer City

Previous Employer State

Will you have filed a tax return or paid income taxes to any state other than Virginia during the past year? ☐ Yes ☒ No

If yes, explain:

SECTION C, CONT.

For at least one year immediately prior to the term the applicant intends to enroll, will you have:

- Filed a resident tax return or paid resident taxes to Virginia on all earned income? ☒ Yes ☐ No
If yes, please provide tax years of filing: **1987-2016**
If no, please indicate to which state(s) resident tax returns were filed and tax years of filing:
- Been a registered voter in Virginia? ☒ Yes ☐ No
If yes, please provide the registration date: (mm/dd/yyyy) **07/22/2011**
If no, are you a registered voter in any state? ☐ Yes ☐ No If yes, please select the state:
- Held a valid Virginia driver's license? ☒ Yes ☐ No
If yes, as of what date? (mm/dd/yyyy) **05/21/2010**
If no, are you licensed to drive in any state? ☐ Yes ☐ No If yes, in what state are you licensed to drive?
- Do you own or operate a motor vehicle? ☒ Yes ☐ No If yes, has it been registered in Virginia? ☒ Yes ☐ No
If yes, as of what date? (mm/dd/yyyy) **05/01/2010**
If no, in which state has it been registered?

ANSWER THIS QUESTION ONLY IF YOU OR YOUR PARENT IS A NON-RESIDENT EMPLOYED IN VIRGINIA.

Do you or your parent commute from a residence outside Virginia to a worksite in Virginia for full-time employment and pay Virginia income tax on all taxable income earned in Virginia? ☐ Yes ☐ No

ANSWER THE FOLLOWING QUESTIONS ONLY IF YOU, YOUR PARENT, OR SPOUSE IS IN THE MILITARY.

Who is in the military? ☐ Self ☐ Parent ☐ Spouse

Are resident Virginia income taxes being paid on all military income? ☐ Yes ☐ No
If yes, as of what date? (mm/dd/yyyy) _____

Are you, your spouse, or your parent active duty military assigned to a permanent duty station in Virginia, a state contiguous to Virginia, or Washington, DC? ☐ Yes ☐ No

Please use this space to explain any of your responses.

VA STATUS SIGNATURES

Please review all responses carefully before submitting this form. Your responses cannot be changed once this form is submitted. Incomplete or incorrect information will delay the review of the application for admission.

By signing this form, you, your parent, spouse, or legal guardian, are affirming that all the information provided is true and correct.

Denny Rual Anderson III

Applicant Signature

10/29/2016

Date (mm/dd/yyyy)

Denny Rual Anderson II

Parent, Spouse, or Legal Guardian Signature (if applicable)

10/29/2016

Date (mm/dd/yyyy)

Applicant Copy

09/16/2016

Test Credits

Test Credits Applied Toward Arts & Sciences Undergraduate

Transferred to Term 2015 Fall as				
ENWR	1510	Writing and Critical Inquiry	TE	0.00
FRLN	2020	Non-UVa Transfer/Test Credit	TE	0.00
Test Credit Total:				
0.00				

Transfer CreditsTransfer Credit from Lord Fairfax Community College
Applied Toward Arts & Sciences Undergraduate Program

Incoming Course				
SPA	212	Intermediate Spanish Conversat		
Transferred to Term 2015 Fall as				
SPAN	2000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
SPA	211	Intermediate Spanish Conversat		
Transferred to Term 2015 Fall as				
SPAN	2000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
SPA	112	Conversation in Spanish II		
Transferred to Term 2015 Fall as				
SPAN	2000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
SPA	111	Conversation in Spanish I		
Transferred to Term 2015 Fall as				
SPAN	2000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
PLS	212	U.S. Government II		
Transferred to Term 2015 Fall as				
PLAP	2000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
PLS	211	U.S. Government I		
Transferred to Term 2015 Fall as				
PLAP	1000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
MTH	174	Calc with Analytic Geo II		
Transferred to Term 2015 Fall as				
MATH	1320	Calculus II	PT	4.00

Incoming Course				
MTH	173	Calc with Analytic Geo I		
Transferred to Term 2015 Fall as				
MATH	1310	Calculus I	PT	4.00

Incoming Course				
MTH	164	Precalculus II		
Transferred to Term 2015 Fall as				
MATH	1030	Precalculus	PT	3.00

Incoming Course				
ITE	115	Introduction to Computer Appli		
Transferred to Term 2015 Fall as				
CS	1000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
HIS	122	United States History II		
Transferred to Term 2015 Fall as				

HIST	2000T	Non-UVa Transfer/Test Credit	PT	3.00
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Incoming Course				
HIS	121	United States History I		
Transferred to Term 2015 Fall as				
HIST	2000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
HIS	112	History of World Civ II		
Transferred to Term 2015 Fall as				
HIST	2000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
HIS	111	History of World Civ I		
Transferred to Term 2015 Fall as				
HIST	1000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
ENG	242	Transferred ENG Course		
Transferred to Term 2015 Fall as				
ENGL	2000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
ENG	112	Writing		
Transferred to Term 2015 Fall as				
ENWR	1000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
ENG	111	Writing		
Transferred to Term 2015 Fall as				
ENWR	1000T	Non-UVa Transfer/Test Credit	PT	3.00

Incoming Course				
CST	100	Public Speaking		
Transferred to Term 2015 Fall as				
DRAM	2070	Public Speaking	PT	3.00

Incoming Course				
BIO	102	General Biology II		
Transferred to Term 2015 Fall as				
BIOL	2200	Intro Biol: Orgnsm & Evol Biol	PT	3.00

Incoming Course				
Transferred to Term 2015 Fall as				
BIOL	2040	Intro Biol Lab II	PT	1.00

Incoming Course				
BIO	101	General Biology I		
Transferred to Term 2015 Fall as				
BIOL	2100	IntroBio w/Lab:Cell & Genetics	PT	3.00

Incoming Course				
Transferred to Term 2015 Fall as				
BIOL	2030	Introductory Biology Lab	PT	1.00

Transfer Credit Total:				64.00
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Beginning of Undergraduate Record

2015 Fall				
School:		College & Graduate Arts & Sci		
Major:		Arts & Sciences Undeclared		
COLA	1500	College Advising Seminars	A	1.0

09/16/2016

Course Topic:	Regulating Reproduction			
CS 1113	Introduction to Programming	A	3.0	
HIUS 1501	Introductory Sem in U.S. Hist	A-	3.0	
Course Topic:	Am Disasters: Cholera-Katrina			
MATH 2315	Adv Calculus and Lin Alg I	B	4.0	
MATH 3250	Ordinary Differential Equatns	B	4.0	
Curr Credits	15.0	Grd Pts	51.100	GPA 3.407
Cuml Credits	15.0	Grd Pts	51.100	GPA 3.407

2016 Spring

School:	College & Graduate Arts & Sci			
Major:	Mathematics			
CS 2102	Discrete Mathematics I	B+	3.0	
CS 2110	Software Development Methods	A	3.0	
MATH 3000	Transition to Higher Math	A-	4.0	
MATH 3351	Elementary Linear Algebra	A	3.0	
PHIL 2420	Introduction to Symbolic Logic	B	3.0	
Curr Credits	16.0	Grd Pts	57.700	GPA 3.606
Cuml Credits	31.0	Grd Pts	108.800	GPA 3.510
Honor:	Dean's List			

2016 Summer

School:	College & Graduate Arts & Sci			
Major:	Mathematics			
Major:	Interdisciplinary - Computer Science			
CS 3205	HCI in Software Development	A	3.0	
MATH 3100	Intro Mathematical Probability	B+	3.0	
Curr Credits	6.0	Grd Pts	21.900	GPA 3.650
Cuml Credits	37.0	Grd Pts	130.700	GPA 3.532

2016 Fall

School:	College & Graduate Arts & Sci			
Major:	Mathematics			
Major:	Interdisciplinary - Computer Science			
CS 2150	Program & Data Representation		3.0	
CS 2910	CS Education Practicum		1.0	
CS 3102	Theory of Computation		3.0	
MATH 3310	Basic Real Analysis		3.0	
MATH 3354	Survey of Algebra		3.0	
MATH 4651	Advanced Linear Algebra		3.0	

End of Undergraduate Record

Report Results

[Return](#)

Unofficial transcript

Name : Anderson III,Denny Rual
 Student ID: 6384516
 Phi Theta Kappa International Honor Society Member
 Lord Fairfax Community College
 173 Skirmisher Lane
 Middletown, VA 22645
 United States

- - - - Degrees Awarded - - - -

Degree : Certificate
 Confer Date : 2015-05-16
 Degree GPA : 4.000
 Degree Honors : Summa Cum Laude
 Plan : General Education

Degree : Associate of Science
 Confer Date : 2015-05-16
 Degree GPA : 4.000
 Degree Honors : Summa Cum Laude
 Plan : Science

- - - - Beginning of Credit Record - - - -

2012 Fall

MTH	163	Precalculus I	3.00	3.00 A	12.000
TERM GPA :		4.000	TERM TOTALS :		12.000
CUM GPA :		4.000	CUM TOTALS :		12.000
Good Standing					

2013 Spring

MTH	164	Precalculus II	3.00	3.00 A	12.000
TERM GPA :		4.000	TERM TOTALS :		12.000
CUM GPA :		4.000	CUM TOTALS :		24.000
Good Standing					

2013 Fall

AST	102	Keyboarding II	3.00	3.00 A	12.000
HIS	111	History of World Civ I	3.00	3.00 A	12.000
HIS	121	United States History I	3.00	3.00 A	12.000
MTH	173	Calc An Geo I	5.00	5.00 A	20.000
SPA	111	Conv Span I	3.00	3.00 A	12.000
TERM GPA :		4.000	TERM TOTALS :		68.000
CUM GPA :		4.000	CUM TOTALS :		92.000
Good Standing					

2014 Spring

AST	141	Word Processing I	3.00	3.00 A	12.000
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Transcript Upload 2

Denny Anderson
4182706

Script Upload 2	History of World Civ II	3.00	3.00	A	12.000
HIS 122	United States History II	3.00	3.00	A	12.000
SPA 112	Conv Span II	3.00	3.00	A	12.000
TERM GPA :	4.000	TERM TOTALS :	12.00	12.00	48.000
CUM GPA :	4.000	CUM TOTALS :	35.00	35.00	140.000
Good Standing					

2014 Summer

CST	100	Principles of Public Speaking	3.00	3.00	A	12.000	
HLT	115	Intro Per/Comm Health	1.00	1.00	A	4.000	
SDV	100	College Success Skills	1.00	1.00	A	4.000	
TERM GPA :		4.000	TERM TOTALS :		5.00	5.00	20.000
CUM GPA :		4.000	CUM TOTALS :		40.00	40.00	160.000
Good Standing							

2014 Fall

BIO	101	General Biology I	4.00	4.00	A	16.000
ENG	111	College Composition I	3.00	3.00	A	12.000
ITE	115	Intro Computer Apps & Concepts	3.00	3.00	A	12.000
ITE	215	Adv Computer Apps/Integration	4.00	4.00	A	16.000
MTH	174	Calculus with Analytic Geo II	5.00	5.00	A	20.000
PLS	211	U.S. Government I	3.00	3.00	A	12.000
SPA	211	Int Spa Con I	3.00	3.00	A	12.000
TERM GPA :			4.000	TERM TOTALS :		25.00 25.00 100.000
CUM GPA :			4.000	CUM TOTALS :		65.00 65.00 260.000
Good Standing						
President's List						

2015 Spring

ENG	242	Survey of American Lit II	3.00	3.00	A	12.000
BIO	102	General Biology II	4.00	4.00	A	16.000
ENG	112	College Composition II	3.00	3.00	A	12.000
PLS	212	U.S. Government II	3.00	3.00	A	12.000
SPA	212	Inter Spanish Conversation II	3.00	3.00	A	12.000
TERM GPA :		4.000	TERM TOTALS :		16.00	16.00
CUM GPA :		4.000	CUM TOTALS :		81.00	81.00
324.000						
Good Standing						
President's List						

Credit Career Totals

CUM GPA : 4.000			CUM TOTALS : 81.00		324.000
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[Return](#)

DENNY R. ANDERSON III

1114 Pinetop Road

Gore, VA, 22637

dra2zp@virginia.edu

Cell: (540) 327-8657, Home: (540) 858-2806

OBJECTIVE

Seeking admission into the Graduate School of Engineering and Applied Sciences at the University of Virginia

EDUCATION

University of Virginia, Charlottesville, VA

- Bachelor of Arts Degree in Computer Science, May 2017
- Bachelor of Arts Degree in Mathematics, May 2017
- GPA: 3.532
- Dean's List: 2016 – Present

Lord Fairfax Community College, Middletown, VA

- Associate of Science Degree, May 2015
- GPA: 4.000
- President's List: 2013 – 2015

James Wood High School, Winchester, VA

- Advanced Studies Diploma, May 2015
- Valedictorian
- GPA: 4.550
- "A" Honor Roll: 2011 – 2015
- Perfect Attendance: 2011 – 2015
- AP Scholar with Honor, 2014
- AP Scholar with Distinction, 2015

SKILLS AND CERTIFICATIONS

Computer Programming Language Experience:

- C++, Java, Python, C, x86, IBCM, Idris

Certifications:

- Microsoft Office Specialist Master 2010, 2013

WORK AND VOLUNTEER EXPERIENCE

Work, Teaching Assistant at UVa: August 2016 – Present

- Teach undergraduate students in human-computer interaction in software development

Volunteer, Hereford Sapling Program at UVa: August 2016 – Present

- Mentor incoming first-year students

Volunteer, Peer Tutor at James Wood High School: August 2013 – June 2014

- Tutor high school students in all subject areas
- 72 hours of community service

EXTRACURRICULAR AND PERSONAL

Member of Computer and Network Security: 2016 – Present

Member of Hereford Student Senate (Sustainability Committee): 2016 – Present

Member of National Society of Collegiate Scholars: 2016 – Present

Member of Sigma Alpha Lambda Leadership and Honors Organization: 2016 – Present

Member of Echols Mathematics Club: 2015 – Present

Member of Association for Computing Machinery: 2015 – Present

Member of Phi Theta Kappa Honor Society: 2014 – Present

Denny R. Anderson III

I am interested in seeking a Master's Degree in Computer Science because I am very passionate about computer science and mathematics, and I feel that I could greatly contribute to those fields. I first became interested in computer science when I matriculated to the University of Virginia and took CS 1113, an introductory CS course. I had an amazing professor, Kevin Sullivan, and really enjoyed the class. I truly admired the way that Professor Sullivan introduced students to the field of computer science by giving a brief history of the subject and major accomplishments that pioneers contributed to the area as well as by using Ldris, a lesser-known programming language, to explain fundamental concepts of computing, including recursion, typeclasses, and overloaded operators. This broad view of computer science opened my mind up to a plethora of possibilities and different areas that I could see myself contributing to. As I was drawn to take more CS classes, I especially became interested in how mathematics can be utilized in computer science. Thus, I was captivated by computer security and how cryptography and encryption are used to enforce this. With my Bachelor of Arts degrees in mathematics and computer science, I believe that obtaining a Master of Computer Science degree will be even more beneficial and fulfilling for me. I would love to have the opportunity to continue studying at UVa, where I obtained my bachelor degrees. An MCS degree is most desirable to me, as it allows more freedom in choosing whether to participate in a project, conduct research, or take more courses.

There are several reasons I have for wanting to obtain an advanced degree. It gives me a chance for intellectual growth. Attending graduate school would allow me to get to know more about a subject that I greatly admire and am extremely passionate about. In addition, it would allow me to both expand and narrow my studies in different respects. I would be able to broaden my studies by taking courses in various subjects like astronomy, biology, chemistry, mathematics, physics, and statistics in order to learn more about how computer science can contribute to those interdisciplinary areas. In contrast, I would also be able to focus more on areas that interest me, such as cryptography and artificial intelligence. Furthermore, taking graduate CS courses will allow me to become an expert in my field. More advanced CS classes, in my opinion, are more interesting than introductory, undergraduate courses since the latter is very broad while the former allows students to learn about more in-depth, interesting concepts. Furthermore, an advanced degree will give me an increased number of career opportunities that are more fulfilling for someone like me who greatly appreciates computer science.

In five or ten years from now, I see myself working for the government to increase the nation's cybersecurity network and prevent hackers from gaining access to important information that they are unauthorized to access. Technology is becoming exponentially more advanced each year, which increases the possibility of a cyberattack and unauthorized intrusions on secure networks. In today's world, graduating with a master's degree in computer science is beneficial in virtually every career, especially cybersecurity. Each day, hackers steal millions of people's identities and are able to access information they are not supposed to. I believe I would be highly satisfied with a career working for the government because I would be able to help prevent these illegal cyberattacks and make the United States' networks more secure. In particular, working for the government would help protect very sensitive, top-secret information from getting into the hands of malicious hackers. A master's degree is required in order to work in most computer security areas of the government.

Moreover, I have also really enjoyed helping students learn. I had a wonderful time peer-tutoring students in high school and being a teaching assistant at UVa. Devoting my time to helping students learn and seeing students finally understand a concept that they were having difficulty with is very fulfilling. As a result, I would also be interested in becoming a professor at a community college. Teaching computer science to undergraduates would allow me to impart a great deal of knowledge of computing to my students, and I would be able to show students how interesting and important computer science is. A minimum of a master's degree is also required in order to work as a professor at community colleges. Perhaps I will work in the government for some length of time and later return to academia to teach computer science courses at a college.

Wherever life takes me and whatever I decide I want to do for a career, an advanced degree in computer science will undoubtedly help me reach my goals. I believe I will succeed and thrive in graduate school at UVa and will largely benefit from growing intellectually, learning more about interdisciplinary computer science areas, refining my knowledge and becoming an expert in areas of computer science that I find most interesting, and having more career opportunities open to me. I would be honored to be accepted into the School of Engineering and Applied Science's Computer Science Department at the University of Virginia. I feel that I have much to offer the CS department because I am dedicated to and passionate about computer science.