

Musa V. Ahmed

graduate research assistant

Contact

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languages

English
Urdu, Hindi & Punjabi

Programming

♥ Python
Java & C/C++

Skills

Object-oriented
Imperative
Testing, Scripting
LaTeX, Linux
Emulation &
Simulation

Education

- | | | |
|-----------|---|----------------------------------|
| 2014–2015 | Masters of Computer Science
<i>In Progress</i>
Cumulative GPA: 3.5 | Florida International University |
| 2012–2014 | Bachelor of Computer Science
Cumulative GPA: 3.45 | Florida International University |

Experience

- | | | |
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| 2014–Now | Florida International University
<i>Graduate Research Assistant</i>
Awarded full graduate assistantship.
Current projects: <ul style="list-style-type: none">• Symbiotic Approach with FluidGPU Model (hybrid emulation and fluid model on GPU)• Mininet Conflux (realistic background traffic in Mininet using hybrid emulation & simulation approach)• MyExperiment (full implementation and deployment for GEC 22)• Thesis in progress. | Miami, Florida |
| 2014 | Florida International University
<i>Undergraduate Research Assistant</i>
REU-NSF student during last year of undergraduate career.
Research topics: <ul style="list-style-type: none">• Various link emulators (e.g., Dummynet, tc-netem, etc.)• Variety of hypervisors & virtualization technologies (e.g., KVM, cgroups, etc.)• Assisted with PrimoGENI Constellation (large-scale experiments on GENI resources)• Started MyExperiment project (online repository for network experiments)• Experimented with Mininet• Experimented with OpenvSwitch | Miami, Florida |
| 2013 | Florida International University
<i>Teaching Assistant</i>
Instructed lab session, held office hours, and proctored exams for Programming I. | Miami, Florida |

Awards

- | | | |
|------|--|----------------------------------|
| 2014 | Outstanding Undergraduate Student
Finalist among top students in their final year of a Bachelors degree. | Florida International University |
| 2014 | Dean's List
Fall 2014 | Florida International University |
| 2012 | Dean's List
Fall 2012 | Florida International University |

Communication Skills

2014	Oral Presentation	Florida International University
	As part of the course work for CIS4911, I presented my work for senior thesis.	
2014	Oral Presentation	GEC 21, Indiana University
	For GEC 21, I presented my work on the demo floor.	
2013	Poster	Florida International University
	For GEC 21, I created a poster which demonstrates the features of MyExperiment.	
2013	Poster	Florida International University
	As part of the course work for CIS4911, I created a poster which demonstrates my senior thesis.	
2013	Poster	Florida International University
	As part of the course work for CGS3095, I created a poster that shows the rapid advent of unmanned aerial vehicles.	

Interests

Professional: Network Emulation & Simulation, Software Testing, and Open Source Software.

Personal: Linux, PC Gaming & Hardware Modification, Track Driving, and Traveling.

Course Work

Computer Science: Object-oriented Programming, Computer Architecture, Data Structures & Algorithms, Database Design & Management, Functional Programming, Imperative Programming, Software Engineering, Operating Systems, Web Development, Compiler Construction, and Software Testing.

Mathematics: Calculus I/II, Statistics & Probabilities, Discrete Math, Linear Algebra, Graph Theory, Numerical Analysis, Propositional Logic, Theory of Computation,.