



Dr. Dipankar Dasgupta, Program Director

Bootcamp for High School Students

June 20-24, 2016

University Center

# Welcome by U of M Provost



Dr. Karen Weddle-West  
Monday, June 20<sup>th</sup>, 2016





  
Department of Health and Human Services  
Department of Education  
Office of the Assistant Secretary for Health and Human Services  
Office of the Assistant Secretary for Education  
Office of the Assistant Secretary for Health and Human Services  
Office of the Assistant Secretary for Education

EXIT

JAMES

# Cyber Security First Principles



Top Malasri, Instructor  
Monday, June 20<sup>th</sup>, 2016



introvert

EXTROVERT



JAMES  
6

WORK  
HARD  
DREAM  
BIG

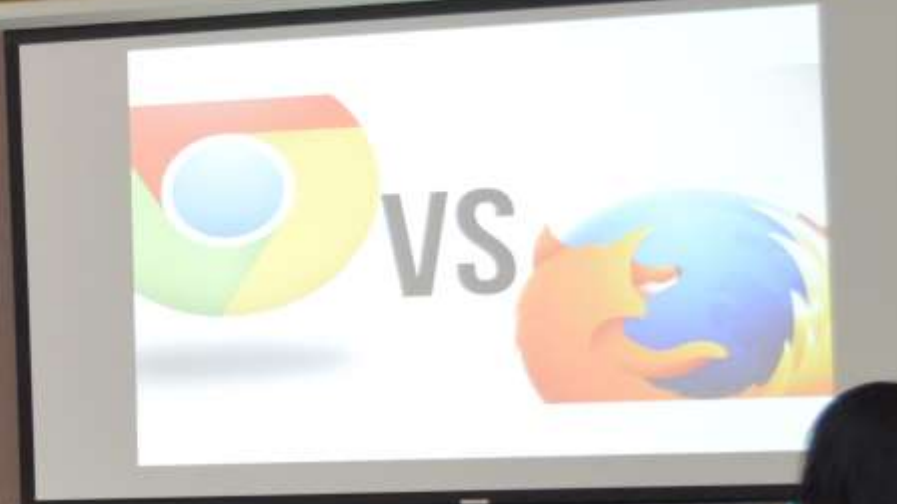






EXIT

JAMES  
6



VS



# Cyber Code of Conducts & University Network Access Policy



**Karen Bell, Systems Analyst  
Monday, June 20<sup>th</sup>, 2016**

# Internet Security and Safe Browsing

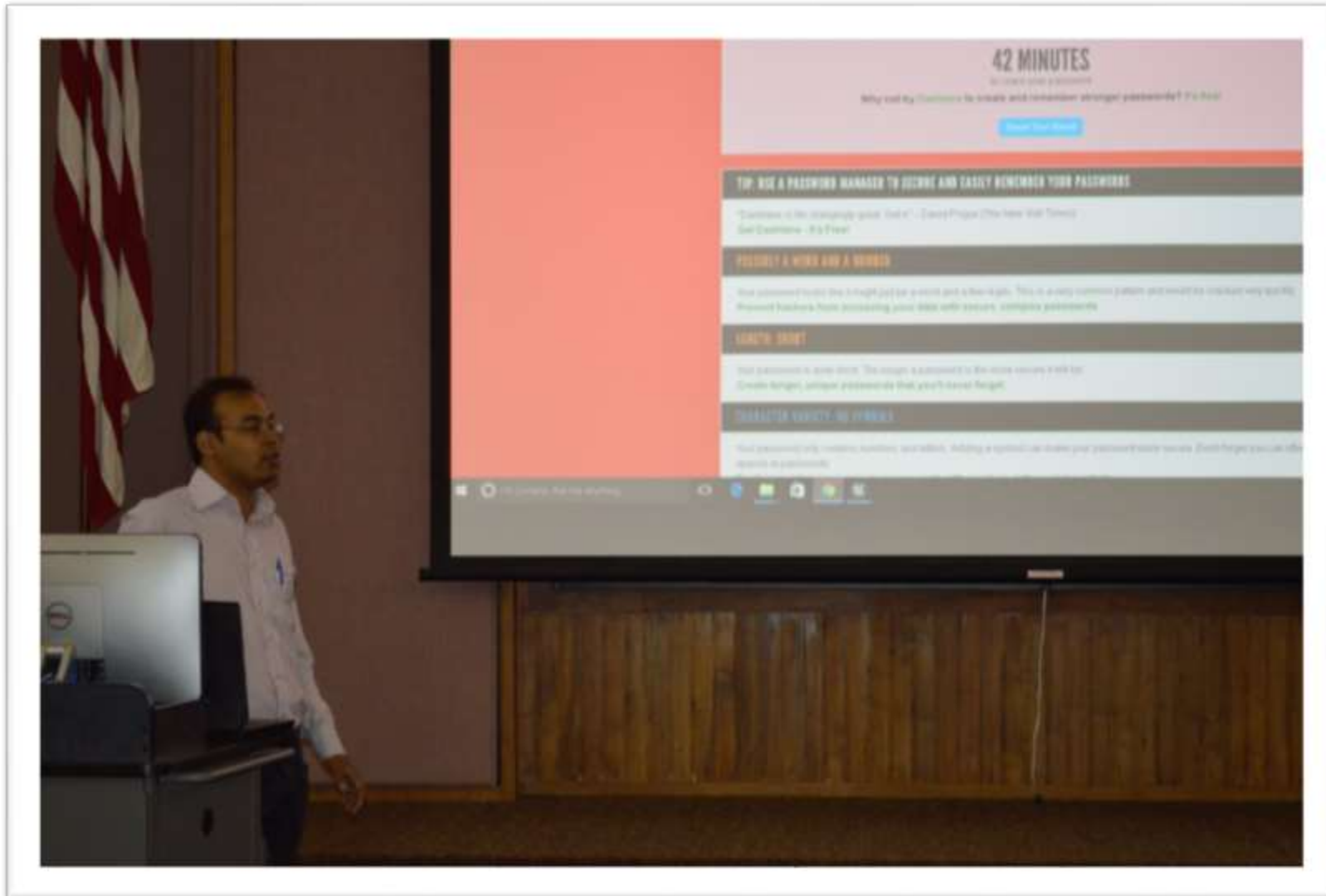


Dr. Dipankar Dasgupta, Center Director  
Monday, June 20<sup>th</sup>, 2016

- Facebook
- Twitter
- Myspace
- Youtube
- Hi5
- LinkedIn
- Google+
- Instagram
- SnapChat
- Whats App



# Why you need to use strong Password?



Abhijit Nag, Ph.D Student  
Monday, June 20<sup>th</sup>, 2016



EXIT

MELT FOR YOU.



# Cyber Security First Principles (Cont.d)



Top Malasri, Instructor  
Tuesday, June 21<sup>th</sup>, 2016

# Government Cyber Security Threats



Mr. Tim Marsh, FBI  
Tuesday, June 21<sup>th</sup>, 2016

# NSA Day of Cyber Session



Rhythm Syed, Student  
Tuesday, June 21<sup>th</sup>, 2016



# Power of Programming

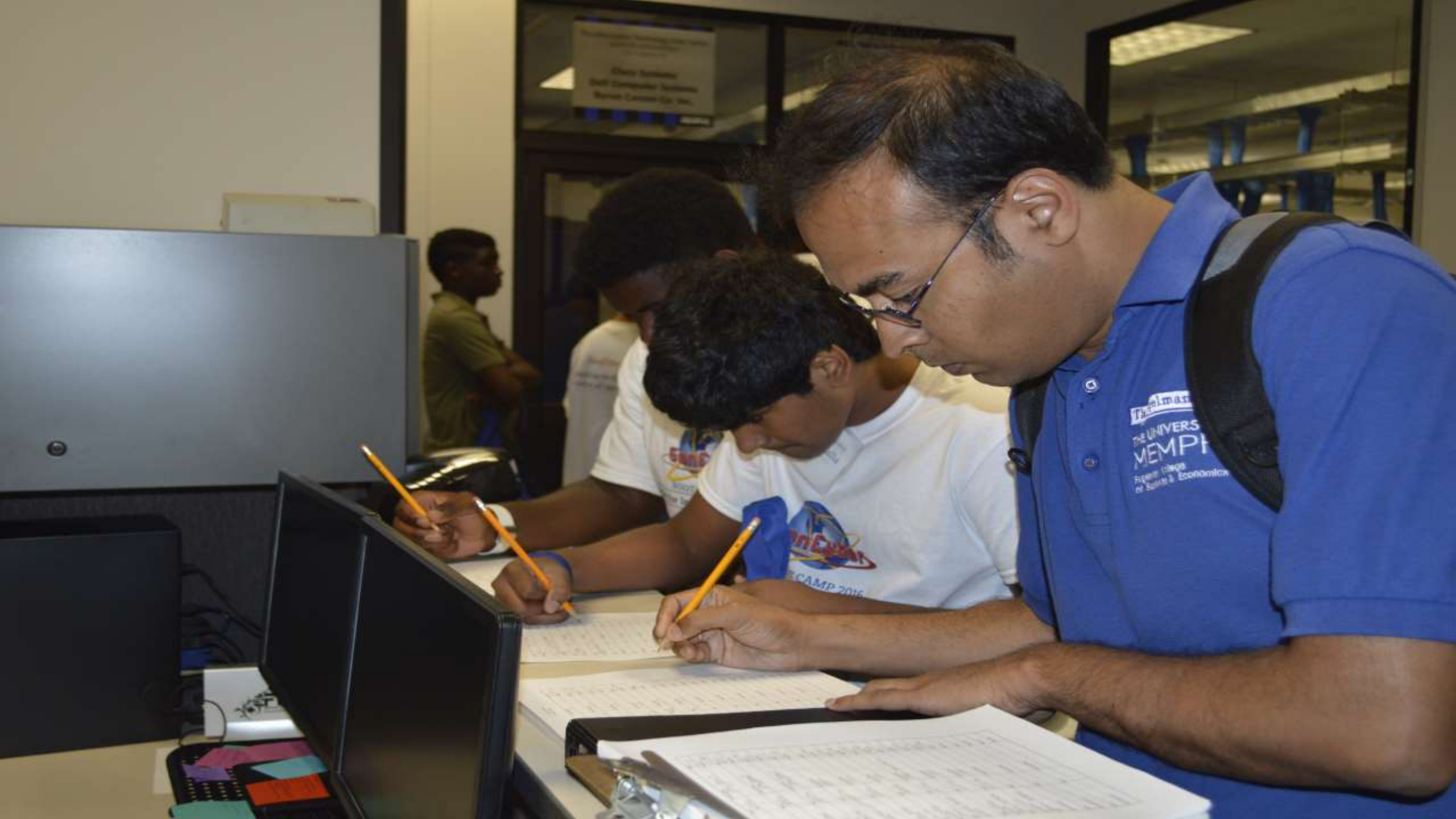


Top Malasri, Instructor  
Tuesday, June 21<sup>th</sup>, 2016

# U of M Data Center Visit



Karen Bell/Liliana Moisa  
Tuesday, June 21<sup>th</sup>, 2016



# Review of Cyber Security First Principles



Top Malasri, Instructor  
Wednesday, June 22<sup>nd</sup>, 2016



# Encryption/Decryption Game



Abhijit Nag, Ph.D Student  
Wednesday, June 22<sup>nd</sup>, 2016







# Security Lesson: Virtual Scavenger Hunt in Campus



Mona Mishra, Student  
Wednesday, June 22<sup>nd</sup>, 2016

# Introduction of App Inventor

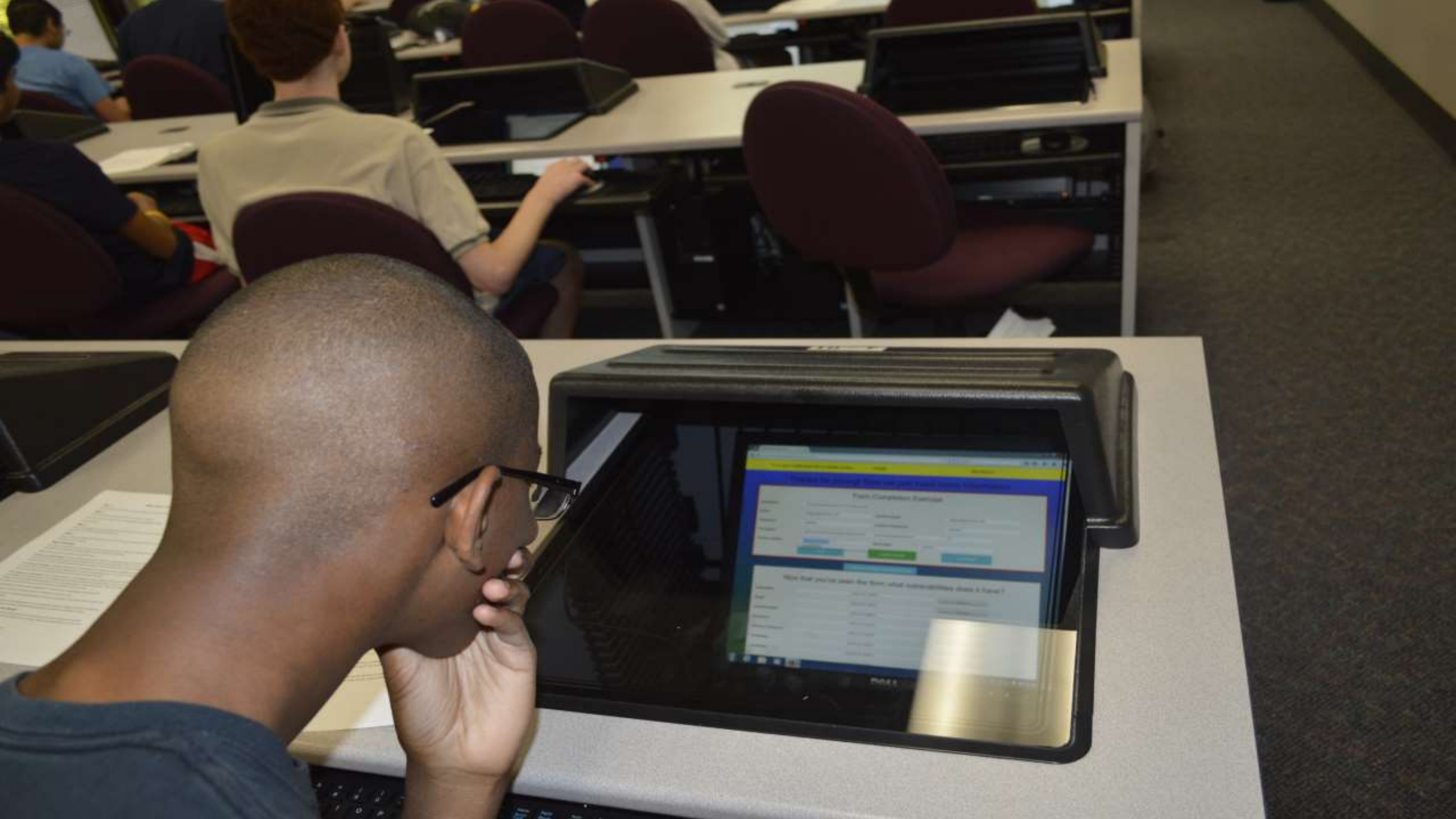


Top Malasri, Instructor  
Wednesday, June 22<sup>nd</sup>, 2016

# Web Form Validation Exercises



Dr. Dipankar Dasgupta/Sujit/Berkeley  
Thursday, June 23<sup>rd</sup>, 2016



# Multi-factor Authentication Project Demonstration



John Shrein/Abhijit Nag/McKittrick Swindle  
Thursday, June 23<sup>rd</sup>, 2016

## Authentication

- What is authentication?
  - The process of determining the validity of one or more credentials used to claim a digital identity.
  - In other words, Making sure you are who you say you are.

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Generation of Cyber Stars

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# FedEx Institute of Technology (FIT) Tour



Tammy Alexander/ Erica Boyce  
Thursday, June 23<sup>rd</sup>, 2016

# University (McWhether) Library Visit



Tammy Alexander/Erica Boyce  
Thursday, June 23<sup>rd</sup>, 2016





# Computer Science Undergraduate Program at U of M



Dr. Lan Wang, CS Chair  
Friday, June 24<sup>th</sup>, 2016

# Cyber Ethics & Privacy Issues in Social Networks



Dr. Judy Simon, Professor  
Friday, June 24<sup>th</sup>, 2016



Thank you!



**Dipankar Dasgupta**, Program Director

Dr. Dasgupta joined the University of Memphis as an assistant professor in 1997 and became a full professor in 2004. He is the recipient of the 2011-2012 Willard R. Sparks Eminent Faculty Award, the highest distinction and most prestigious honor given to a faculty member by the University of Memphis. Prof. Dasgupta is one

of the founding fathers of the field of artificial immune systems, making major contributions in applying bio-inspired approaches to intrusion detection, spam detection, and building survivable systems. In addition to his research and creative activities, he spearheads the University of Memphis' education, training, and outreach activities on Information Assurance as the founding director of the university's Center for Information Assurance.

Contact: dasgupta@memphis.edu



**Kriangsiri ("Top") Malasri**, Lead Instructor

Mr. Malasri joined the U of M's Department of Computer Science in Fall 2007 after finishing his M.S. at the University of Memphis. He has taught a wide variety of introductory computer science courses at the undergraduate level. Since Fall 2011, he has also coordinated academic advising for the Department's undergraduate students.

He is actively involved in recruitment and outreach activities and has been recognized extensively for his teaching and advising, including the 2012 Thomas W. Briggs Foundation Excellence in Teaching Award, 2013 Alumni Association Distinguished Advising Award, 2014 College of Arts and Sciences Award for Teaching Excellence, and 2015 College of Arts and Sciences Award for Advising Excellence.

Contact: kmalasri@memphis.edu

"You're building the future. Please build the one you want to live in."  
- Hilary Mason, CEO of Fast Forward Labs



**Erica Boyce**, Program Assistant

Ms. Boyce is currently an Administrative Associate II with the U of M's Center for Research and Innovation in STEM Teaching and Learning (CRISTAL).

Contact: emboyce@memphis.edu

### ***GenCyber Student Assistants***

James Kiddy     Rhythm Syed

### ***Other U of M Staff***

**Karen Bell**

Systems Analyst II, Enterprise Application Services

**Tammy Alexander**

Project Manager, FedEx Institute of Technology

**Kendra Tillis**

Business Officer II, Department of Computer Science

### ***Student Volunteers***

Sharifa Begum  
Daya Ram Budhatoki  
Robert Edstrom  
Aaron Marshall  
Mona Mishra  
Abhijit Nag

Vamsi Krishna Polam  
John Shrein  
Sujit Shrestha  
McKittrick Swindle  
Berkeley Willis