COMPUTER SCIENCE ORIENTATION

WELCOME TO COMPUTER SCIENCE DEPT’T

http://www.kent.edu/cs

Presenter:  Dr. Gus Samba, Professor, Computer Science Department
http://www.cs.kent.edu/~asamba

CS Facebook:  http://www.facebook.com/KSUCSDeprt
CS Twitter:  http://twitter.com/KSU_CSDeprt
Agenda for Today

- Introduction of Scholars
- COF-CS - The big picture
- Scholarship requirements
- Scholarship activities
- Computer Science Bachelor’s programs
- Career opportunities for a computer science graduate
- Q & A?
- Concluding Remarks by Dr. Javed Khan, Chair, Computer Science
COF-CS – THE BIG PICTURE

Student will participate in additional special research programs. Each of the scholars will receive junior researcher experience by rotating into computer science research labs working alongside active researchers in the field.
SCHOLAR INTRODUCTIONS

Please introduce yourself:

- Name
- High School/Institution:
- Expectations for COF-COS
Scholarship Requirements

- Pursue CS as your major
- Maintain a 3.0 GPA
- Mandatory attendance of COF-CS Workshop
- Assigned to a CS Faculty Mentor - 9/25 workshop
- Create and Maintain an Academic Plan Workshop
- Maintain a Plan of Future Profile Workshop
- Choose Ohio First Poster Session (Spring 2021)
COF-CS Scholarship Requirements

- Pursue CS as your major: **Two Options to Choose from**
- Expected to maintain a 3.0 GPA
- **Option 1**: BS Computer Science, No concentration
COF-CS Scholarship Requirements

- **Option II**: BS Computer Science with one of four concentration

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**14+5+4**

2020-21 Course Map to a BS in Computer Science

Concentration: Information Security

- [Diagram showing course map]

**14+5+4**

2020-21 Course Map to a BS in Computer Science

Concentration: Robotic & Embedded Systems

- [Diagram showing course map]

**14+5+4**

2020-21 Course Map to a BS in Computer Science

Concentration: Data Engineering

- [Diagram showing course map]

**14+5+4**

2020-21 Course Map to a BS in Computer Science

Concentration: Game Programming

- [Diagram showing course map]
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COF-CS Scholarship Requirements

- Mandatory attendance of COF-CS events
  - COF-CS Workshop schedule: https://www.kent.edu/cs/global-circ/schedule-events

- CS Faculty Mentors Workshop

- Mentors:
  - Mrs. Maha Alluzi
  - Dr. Qiang Guan
  - Dr. Angela Guercio
  - Dr. Jong-Hoon Kim
  - Dr. Kwangtaek Kim
  - Dr. Xiang Lian
  - Dr. Gus Samba
  - Dr. Gokama Sharma
  - Dr. Lu
  - Dr. Zhao
  - Dr. Dragon
COF-CS Scholarship Requirements

- **Plan of Future**
  - Create Academic Plan (9/18/20 Workshop)
  - Create Career Plans (11/6/20 Workshop)
  - Students work with faculty mentors to maintain academic plan (ongoing)

- **Maintain Scholar Profile**
  - Guidelines to be provided in a 11/6/20 Workshop

- **Choose Ohio First Poster Session (April 2021)**
  - Guidelines to be provided in a COF-CS Workshop
Benefits of CS: Fundamental Computing Careers

A computing degree can open the door to many career opportunities, including:

- Web Developer
- Application Developer
- Software Developer
- Game Designer
- Instructional Technologist
- Network Administrator
- Computer Engineer
- Systems Engineer
- Project Manager
- Solution Architect
- Application Architect
- Technology Architect
- Database Administrator
- Computer Systems Analyst
- Information Technology Manager
Changing Job Growth in Computing from 2016-2026

- Software Developers (Applications): 31%
- Information Security Analysts: 29%
- Computer & Information Research Scientists: 19%
- Web Developers: 15%
- Database Administrators: 12%
- Computer Systems Analysts: 9%
- Computer Occupations (All Other): 9%
- Computer Network Architects: 7%
- Computer Network Support Specialists: 8%
- Computer Programmers: -7%
- Network & Computer Systems: 6%
- Computer User Support Specialists: 11%
- Software Developers (Systems Software): 11%

The Bureau of Labor Statistics
New Job Growth in STEM from 2016-2026
(STEM = Science, Technology, Engineering and Math)

The Bureau of Labor Statistics
Hacksu is a student organization at Kent State University focused on learning and utilizing contemporary web and mobile technologies. We are a very diverse community, spanning multiple majors from Fashion Design to Zoology and are open to students of any skill level.

https://www.kent.edu/cs/global-circ/schedule-events
Choose Ohio First Scholarship

Q & A
CONCLUDING REMARKS

DR. JAVED KHAN

CHAIR, COMPUTER SCIENCE DEP’T