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### CBUSSTUDENTHACK: Innovation and Inspiration for Everyone

Chumbo Chu  
chunbo.chu@franklin.edu

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# CBUSSTUDENTHACK: Innovation and Inspiration for Everyone

Chunbo Chu, Minh Nguyen

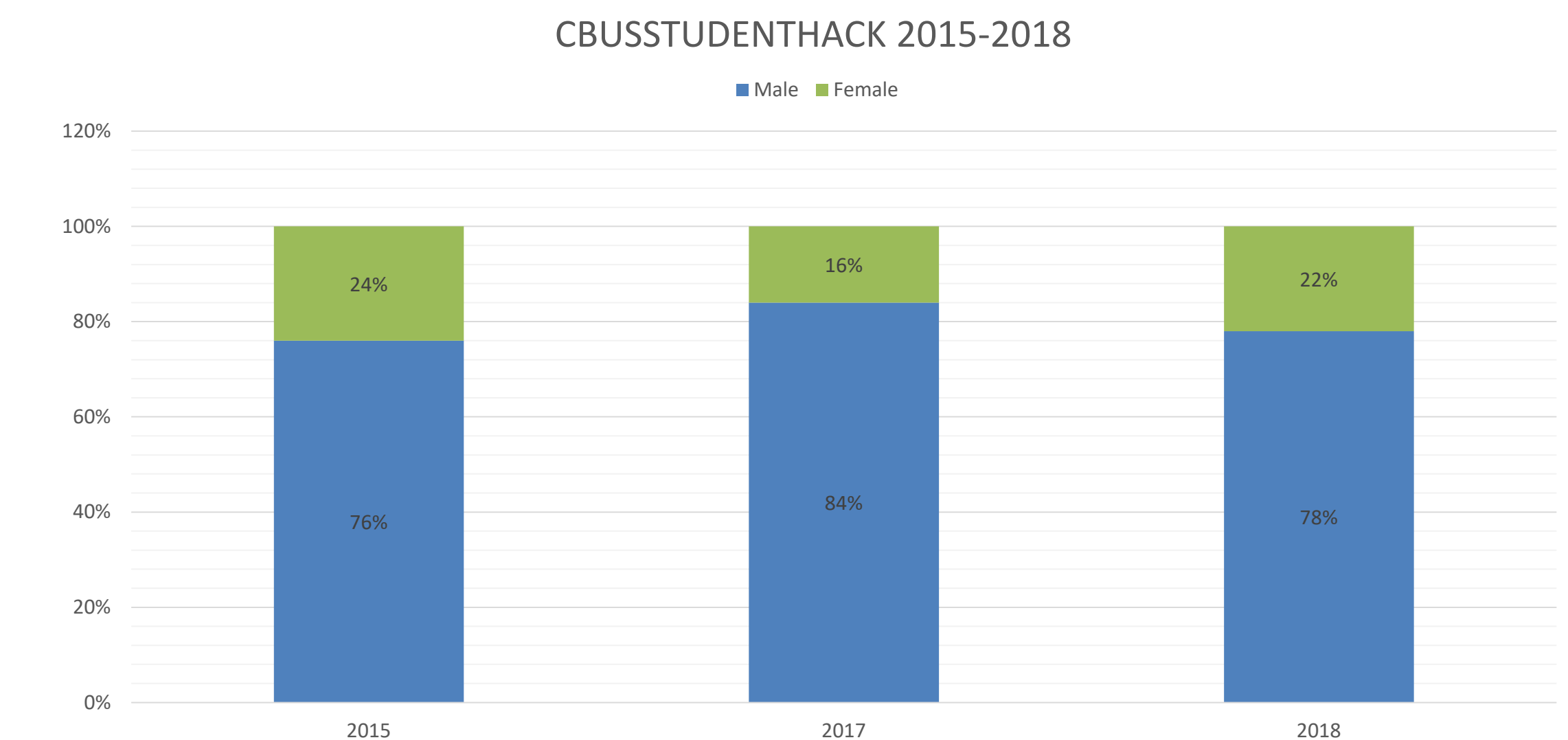
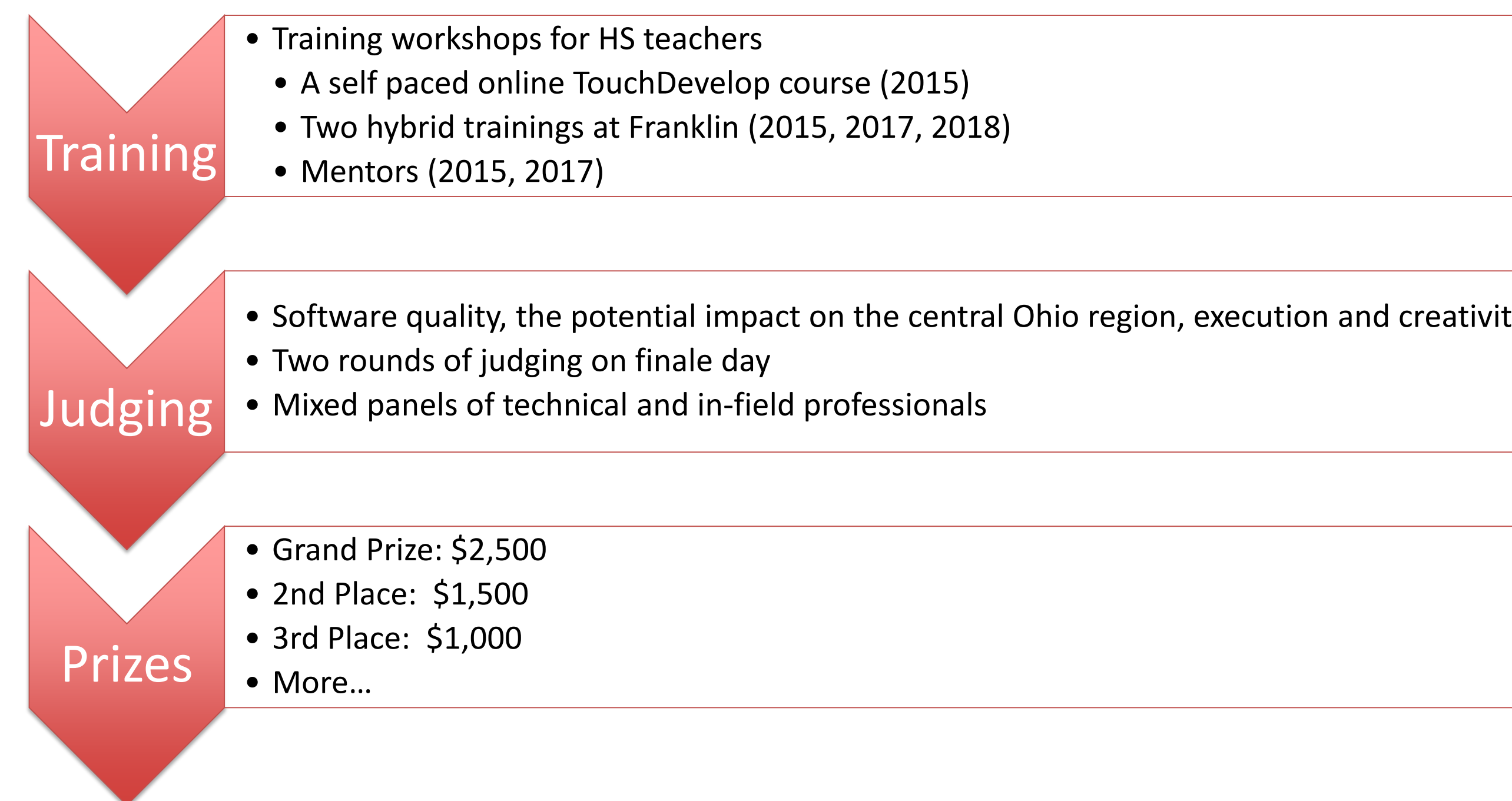
Department of Computer and Information Sciences



## Abstract

CBusStudentHack is a 7-week programming contest organized by Franklin University for High School students around the Central Ohio region. The event aims at promoting computer science education and providing High School students with 21st century skills needed for college and career readiness. Since its inception in 2015, this event has attracted a lot of students to learn, design and develop mobile apps to solve problems relevant to their own life and make a difference in the community. Enrollment has grown significantly and tripled only in three years.

The impact of this event is beyond getting students to write computer programs. It provides an opportunity to engage young students in technology education, to bring Computer Science to underrepresented groups, to empower students to bring their creativity to life, and to discover the fun and beauty in solving real problems with computing.



## Discussion

Benefits:

- Winning large cash prizes and “bragging rights”
- Build teamwork skills
- Be independent learners who can research new topics and solve problems with critical thinking
- Practicing a new programming language/tool
- Keeping the brain sharp and focused
- Having fun!

Challenges:

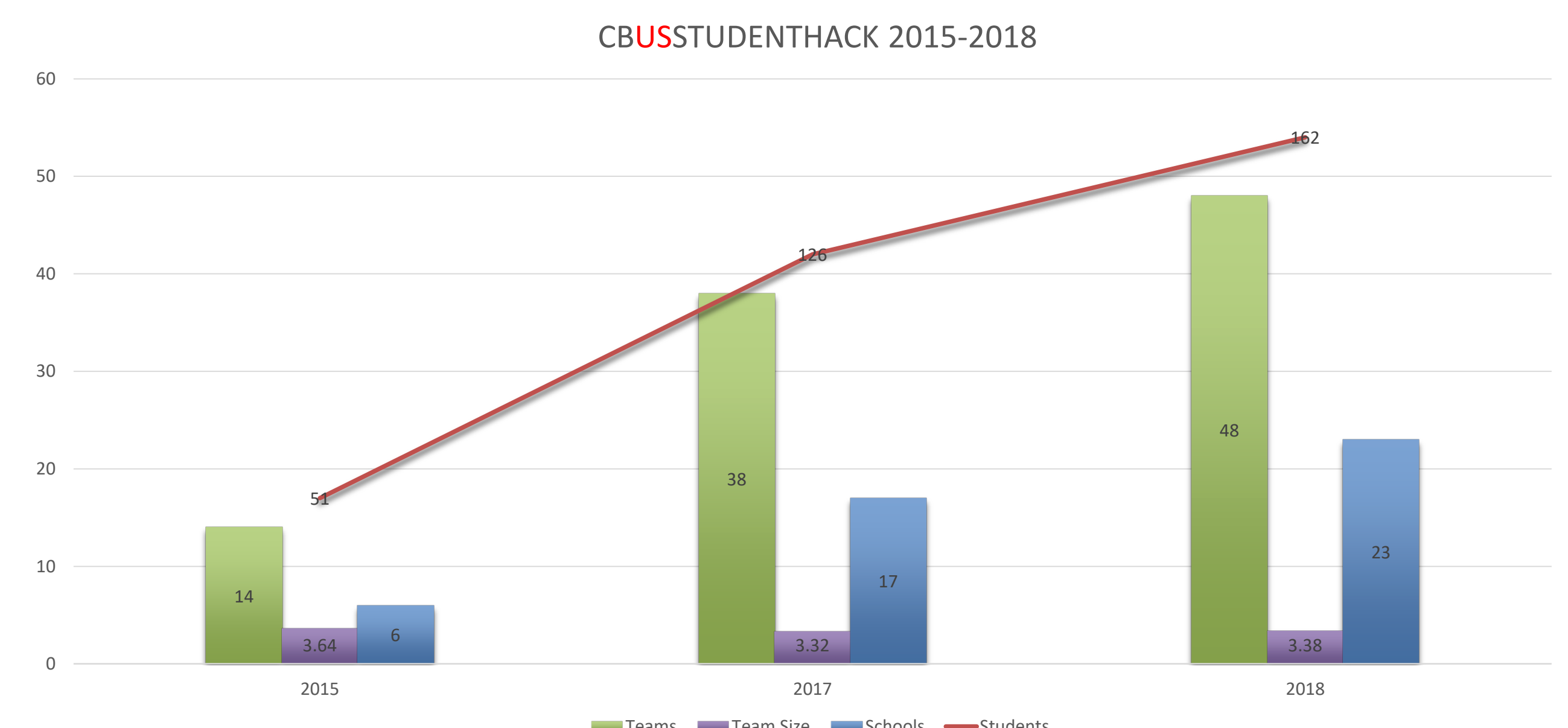
- App idea
- Write working code
- Work in teams around busy schedule
- Time management and stay on track
- Rookies vs veterans
- Getting help

## Background

- It all began in early 2015
- Open access to quality STEM learning opportunities to the young generation
- Stimulate interest and talent in computing fields, one of the major workforce development gaps today
- The Working Committee: Project Manager, faculty, Graduate Assistant, staff, reps from partners

2015	2017	2018
Health and Wellness	The Discovery District – Get Connected	Peacebuilding and conflict resolution for a Better Community
10/2-12/11	3/3-4/21	3/16-4/27
Microsoft Touch Develop	MIT App Inventor/ Meteor	MIT App Inventor/ anything else
AT&T	AT&T	Battelle
Ross Auditorium at Franklin	Columbus Main Library	Columbus Main Library
	\$30,000 Scholarship	\$30,000 Scholarship

## Results



## The Event

- Competition problem: design and develop a mobile app to solve a real problem of a selected theme
- Call of participation sent to high school teachers
- Students work in teams of 2-4
- Milestones:
  - Kickoff (mid March)
  - Interim progress report
  - Final report and project submission
  - Finale (late April)

## Credits

- Chunbo Chu, Shana Loveless, Minh Nguyen, Kemal Aydin, Todd Whittaker

## Contact Info

Chunbo Chu, Ph. D.  
201 S. Grant Ave. Columbus, OH 43215  
E-mail: [chunbo.chu@franklin.edu](mailto:chunbo.chu@franklin.edu)