Technology & Our Children’s Future

Youth Code Jam
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Board Member
What’s the Concern?

• We don’t have enough!
  – Economy at Risk
  – National Security at Risk
  – Opportunity Lost
Opportunity

1,000,000 more jobs than students by 2020

$500 billion opportunity

1.4 million computing jobs

400,000 computer science students

Computer science is a top paying college degree and computer programming jobs are growing at 2X the national average.
Imbalance in Reaching Out

Boys receive more encouragement than girls from...

- **Teachers**: 1.5x as likely to be told by teachers they would be good at CS
- **Parents**: 1.7x as likely to be told by parents they would be good at CS
- **Media**: nearly 2x as likely to often see someone like them doing CS in the media

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Girls: less aware of ways to learn CS on the Internet and in the community
& more likely to have learned CS and to learn on their own

Boys

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g.co/cseduresearch

Google GALLUP
What Else?

• Multilingual Skills:
  – Do you speak Ubuntu?
    • snap install mir-kiosk --channel=beta

• Understanding Technology
  – Not the same as using technology
  – Children teach their parents

• The window closes
  – Digital “Natives”

• Creativity more satisfying that Consuming

• Problem-Solving/Analytical & Critical Thinking
  – “Computational Thinking”
So...Where do you turn?

• Start as early as you can!
  – iPads, smartphones becoming ubiquitous
    • Use them or they will use your kids!
    • code.org

• I’m excited about....

Think globally, but ACT locally!
Youth Code Jam

• Building Excitement
• Building Confidence
• Building The Future
A Solution to Help

A holistic program of connected growth opportunities for all young people to learn with computer programming with the support of their parents and real-life programmers that connects the dots from all that fun to real world jobs.
This says it all
Programs

• Jams
  – San Antonio, Austin, RGV
  – 36 Teacher-run thru out TX

• Camps

• After school clubs

• Teacher PD: 508 as of 2018

• Advocacy
Community Response

14,818 in 2018!!!
Measured Impact

- 81%: Very good/Excellent
- 93%: Wanted to code some more
- Favorite quote: “awesome, fun, tired, happy, hungry!”
- Parents: 98%: child learned something new

- Significant numbers of low-income students
  - 30%-100% depending on program
How are we scaling?

We rely on volunteers.

We incorporate teachers.

We play well with others.

...and Parents help bind it all together!