GIRLsmarts4tech

Parent Workshop





Agenda

- Women in IT
- Your Role as a Parent
- Panel Discussion

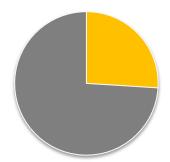
Women in IT

57%

of professional occupations in the US workforce held by women

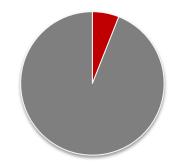
26%

of professional computing occupations in the US workforce held by women



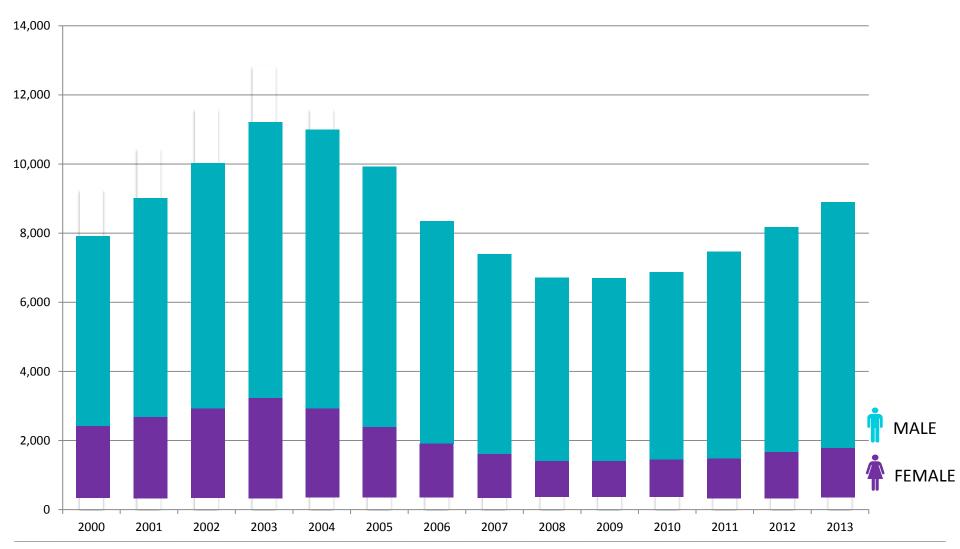
6%

of corporate
Chief
Information
Officer (CIO)
positions held
by women



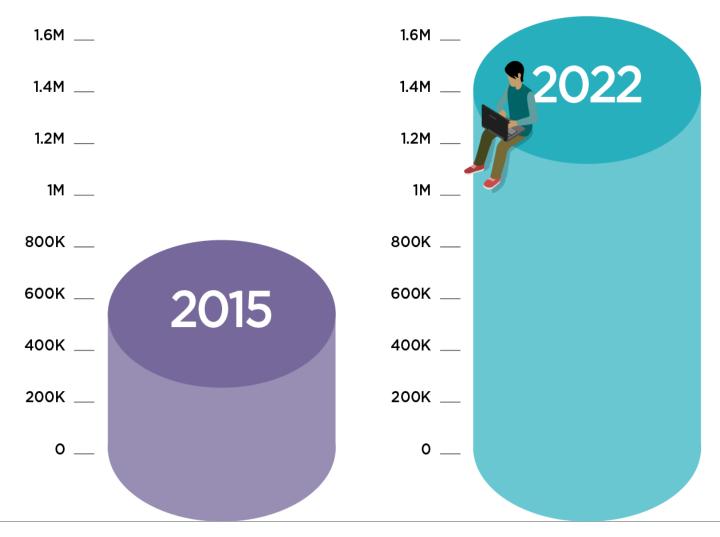
Pipeline of Computer Science Graduates

(less today than 10 years ago)





Opportunities in Computing Jobs





What can you do as a parent?

Encouragement Exposure

Encouragement





Social Encouragement

- Social encouragement includes positive reinforcement from family and peers
- Opportunities to practice puzzles and problem solving in a supportive environment can help build confidence and interest
- What matters most is encouragement!
 - Regardless of your technical expertise





Exposure





Academic & Career Exposure

- Experience with Computer Science in middle and high schools can motivate young women to pursue computing
 - –Parents, encourage your daughters to keep taking Math and Sciences in high school!
 - BC to add CS to future curriculum
- Girls exposed to a wide variety of role-models and mentors help with Recruitment and Retention



Panel Discussion to Explore Careers in Tech

Nicole Arksey

- Team Lead for Platform Design, iQmetrix

Dianne Lapierre

Senior Vice President and Chief Information Officer, Raymond James Ltd

Gail Murphy

- Professor and Associate Dean, University of British Columbia
- Co-founder and Chief Scientist, Tasktop Technologies

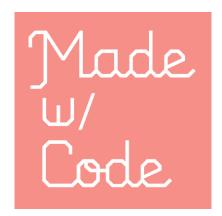
Burak Yoldemir

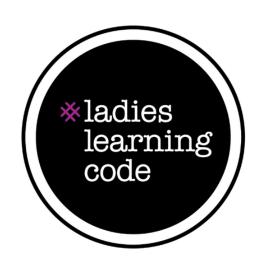
Big Data Developer, SAP



Additional Opportunties









Our Team of Volunteers



- Ghislaine Chan Director, Development
- Michael Ham Manager, Development
- Étienne Hossack Systems Developer
- Faizal Karim Systems Developer Analyst
- Simone Liu Systems Developer

Special Thanks



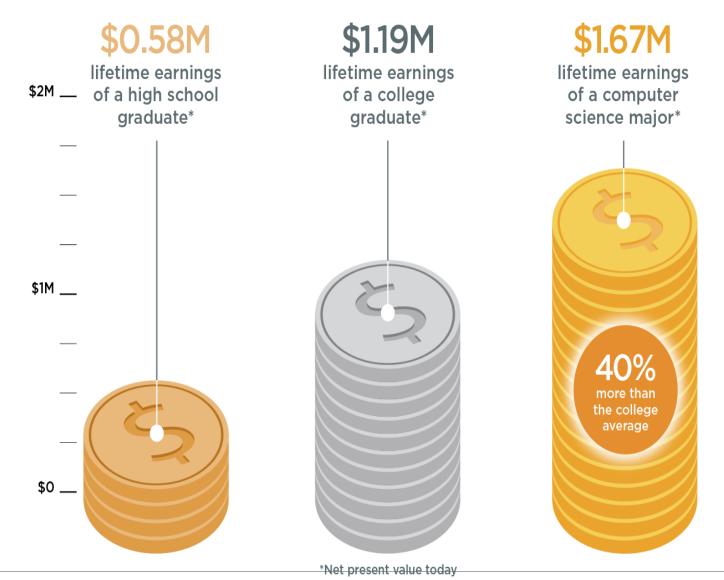


APPENDIX





The value of a computer science education





Canadian Perspective

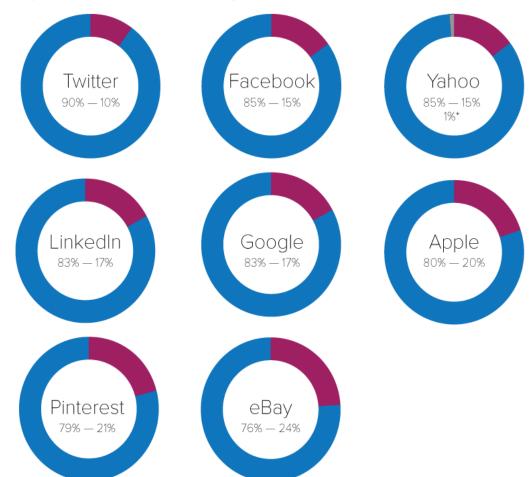


- Information Systems Analysts and Consultants
 - -Median hourly earnings: **\$35.87** = **~\$75,000** annually
- Computer Programmers
 - -Median hourly earnings: **\$33.93** = **~\$70,500** annually
- Software Engineers and Designers
 - -Median hourly earnings: **\$41.21** = **~\$86,000** annually



Tech's Gender Diversity





Gigaom graphic by Biz Carson. Source: Company diversity reports released as of August 19, 2014. *Yahoo reported 1% other/undisclosed. Clsco, Intel, HP and Microsoft did not report tech breakdowns.

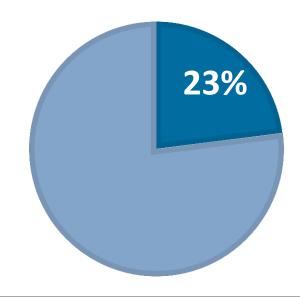


Source: Gigaom

Social Encouragement

- Social encouragement includes positive reinforcement from family and peers
- Parental occupation is statistically insignificant in deciding to pursue **Computer Science**
- What matters most is encouragement!
 - Regardless of their technical expertise



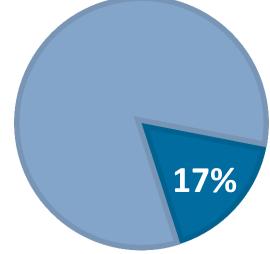




Self Perception

- A positive self-perception translates to ongoing confidence in your daughter's abilities
- In fact, a girl's *interest* in, and *perceptions* of, her own proficiency in Math and problem solving significantly influences her decision to purse a Computer Science degree!





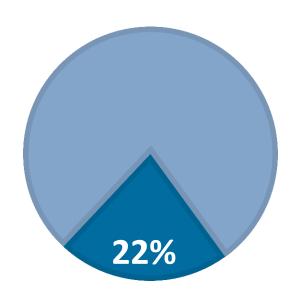
Self Perception

- As parents, providing your daughters with the opportunity to practice puzzles and problem solving in a supportive environment can help build confidence and interest
- This interest has been shown to translate to successful careers



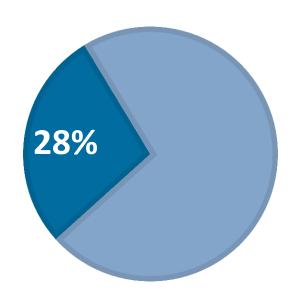
Academic Exposure

- Experience with Computer Science in middle and high schools can motivate young women to pursue computing
- BC to add CS to future curriculum
 - –As parents, you have a voice!



Career Perception

- Visibility of female role models in Computer Science
- Telling stories about positive social impact through careers in computing can enable young women to visualize themselves in the field
- Girls exposed to a wide variety of role-models and mentors help with Recruitment and Retention





Technology Trends and Careers

... It's not just programming!



- AI / Robotics automation, smart devices (ex. self-driving cars)
- **Big Data / Analytics** rate of information creation increasing exponentially; how to extract valuable insights from it?
- Cloud applications and data moving away from local, restricted setups to accessible, scalable architectures
- Internet of Things (IoT) interconnected devices and systems
- Security increasingly important as more applications and systems become interconnected, automated
- UI / UX new technologies lead to new interfaces; how to design and shape user experiences with these interfaces?

Disclaimer

This presentation is provided for information only. Broadridge Financial Solutions, Inc. has done its best to ensure that the material found in this presentation is both useful and accurate. However, please be aware that errors may exist and that Broadridge Financial Solutions, Inc. assumes no responsibility or liability concerning the accuracy of the information that appears in this presentation or in the use to which it may be put.