

# Career in Information Technology (IT)

<insert name>

<insert company>

## Agenda

- My Story
- Why a career in computers
- Suggestions for pursuing
- Resources available to you



#### **Career in IT**

- My story
  - Why did I choose a career IT?
  - What did I do to get a job in information technology?
  - What do I enjoy about my career?
  - How do I spend my time in a typical week?

## **Information Technology**

#### What is it?

Information technology (IT) is the application of computers and telecommunications equipment to store, retrieve, transmit and manipulate data, often in the context of a business or other enterprise.



## What are common job titles?

#### Let's brainstorm...

Analyst
Programmer
Data Quality Manager
Infrastructure
Project Manager
Support
Database Developer
Database Administrator
Security Specialist
Architect
System Engineer
Webmaster

Technical Operations Officer
Java Developer
Help Desk Specialist
Computer Systems Manager
Application Developer
Information Technology Coordinator
IT Support Specialist
.NET Developer
Director of Technology



## Why Computers?

- Jobs, Jobs, Jobs!
- By the year 2020, it is estimated that there will be 1,000,000 more jobs needed than 4year Computer Science college graduates

Source: www.code.org 2015

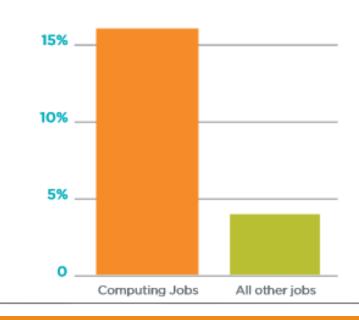
## **Jobs in Minnesota**

 In Minnesota, the demand for IT jobs is increasing by 16%, while the demand for all other jobs is increasing by 4%!

#### Demand for jobs in Minnesota

Source: Conference Board Help Wanted Online Updated Regularly

20% \_\_\_\_\_





## Why Computers?

- Not only jobs, but good paying jobs
- 2019 average salary Computer Science 4year degree
  - \$68,103 (source NACE)
  - Approx. \$34/hour starting!
- 2019 average salary with a Computer Science 2-year degree
  - \$54,000 (source Payscale)

## **Career in Information Technology**

- What skills are needed?
  - Problem solving
  - Programming skills
  - Programming is a team sport
    - Teamwork
    - Being a good team member humility, respect, trust
  - Communication skills
    - Listen to others, share ideas, ask questions



## My IT Example

- My Project and Experience
- My role on the team
- Product
- Challenges
- Outcomes and Areas Improved

## **Computer Skills Demand**

 National movement to expand participation in computer science - www.code.org



## How to Pursue a Job in IT

- What can you do now
  - Classes Computer Programming, Math, Multi-media, Technical Writing, Graphic Design, Web Apps
  - Informational Interviews and Job Shadows
  - Part-time job / Volunteer
  - Develop your own website and/or phone app
  - Post-secondary Enrollment Options (PSEO)
  - Local and On-line Resources
  - Prepare for education beyond high school
- After high school
  - Vocational training
  - College degrees
    - Bachelor (4 year)
    - Associate (2 year)



## What can you do now?

## **Online Resources - ISEEK**

- <u>ISEEK</u> is Minnesota's comprehensive career, education, and job resource. It is sponsored by Minnesota State Colleges and Universities.
- Includes suggestions for ways to prepare for a career in IT.



Discover. Prepare. Succeed. IT.





## Online Resources – Free!

http://hourofcode.com/us (part of

www.code.org)



Khan Academy





#### **Twin Cities Resources**

- Code Savvy -www.codesavvy.org
  - Programs
    - CoderDojo Twin Cities (video next slide)
    - Technovation Challenge
    - Code Clubs
    - Get with the Program
    - Code Camps for kids
    - Learn to Code
  - Partners
    - Digital Empowerment Academy
    - Katie CoderDojo
    - Tonka CoderDojo
- Genesys Works
  - Trains and employees high school students
- Best Buy Teen Tech Center



#### **Twin Cities Resources**

www.coderdojotc.org





#### **Twin Cities Resources**

## Advance IT Minnesota (<a href="www.advanceitmn.org">www.advanceitmn.org</a>)

- More geared to general IT topics versus programming
- Internships
- Cybersecurity Boot Camps
- Women in IT
- IT Discovery Network





## **Questions?**

#### **Thank You!**

BestPrep gratefully thanks sdg and other committee volunteers for gathering the content of this PowerPoint to share with students and volunteer guest speakers in Minnesota classrooms.





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Created: Spring 2015 Updated: Fall 2019