Career in Information Technology

A Component of BestPrep's Classroom Plus Program

Presenter Info: Name and 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?

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Information Technology

The application of computers and telecommunications equipment to store, retrieve, transmit, and manipulate data. Often in the context of a business or other enterprise.

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What career titles come to mind when you think of a Career in IT?

What are common job titles?

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
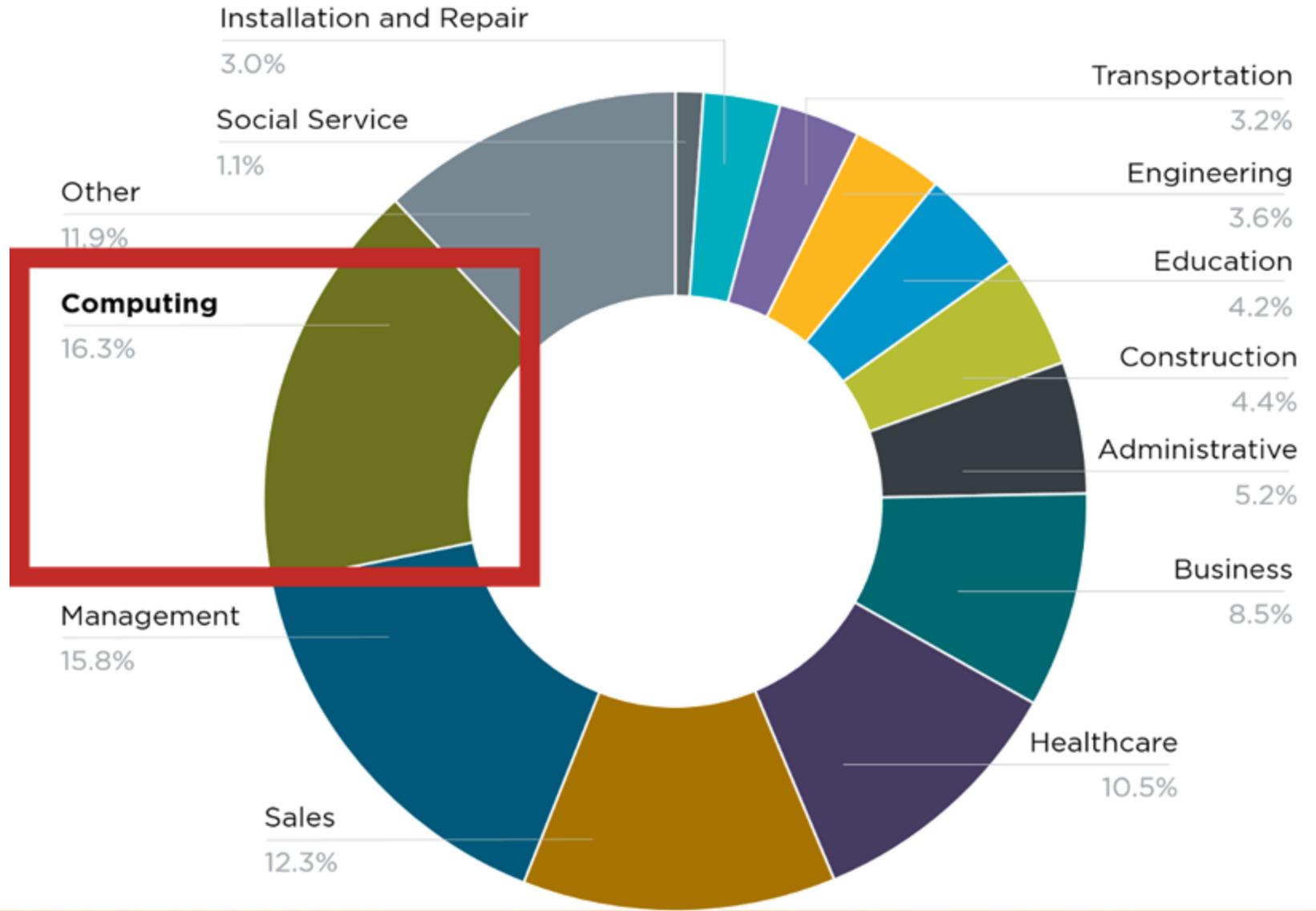
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Why Computers?

- Jobs, Jobs, Jobs!

- Computing jobs are the #1 source of new wages in the United States

  - o 500,000 current openings

  - o These jobs are in every industry and every state

  - o Projected to grow at twice the rate of other jobs

Why do you think this is?

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#1 source of wages

Installation and Repair
3.0%

Social Service
1.1%

Other
11.9%

Computing
16.3%

Management
15.8%

Sales
12.3%

Transportation
3.2%

Engineering
3.6%

Education
4.2%

Construction
4.4%

Administrative
5.2%

Business
8.5%

Healthcare
10.5%

Source: www.code.org 2024

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Jobs in Minnesota

- In Minnesota, there are about 108,000 people working in IT
  - 3.8% of total employment in MN (national average is 3.7%)
- Tech job market is set to grow by 20% in MN!

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Salary for IT

- Not only jobs, but good paying jobs

- 2024 salary projection Computer Science 4-year degree
  - $74,778 (source NACE) - starting!

- 2023 average salary with a Computer Science 2-year degree
  - $52,200 (source MonsterJobs)

Skills 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 Career in IT

- 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 Now

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

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How to Pursue a Job in IT in the Future

After high school
- Vocational training
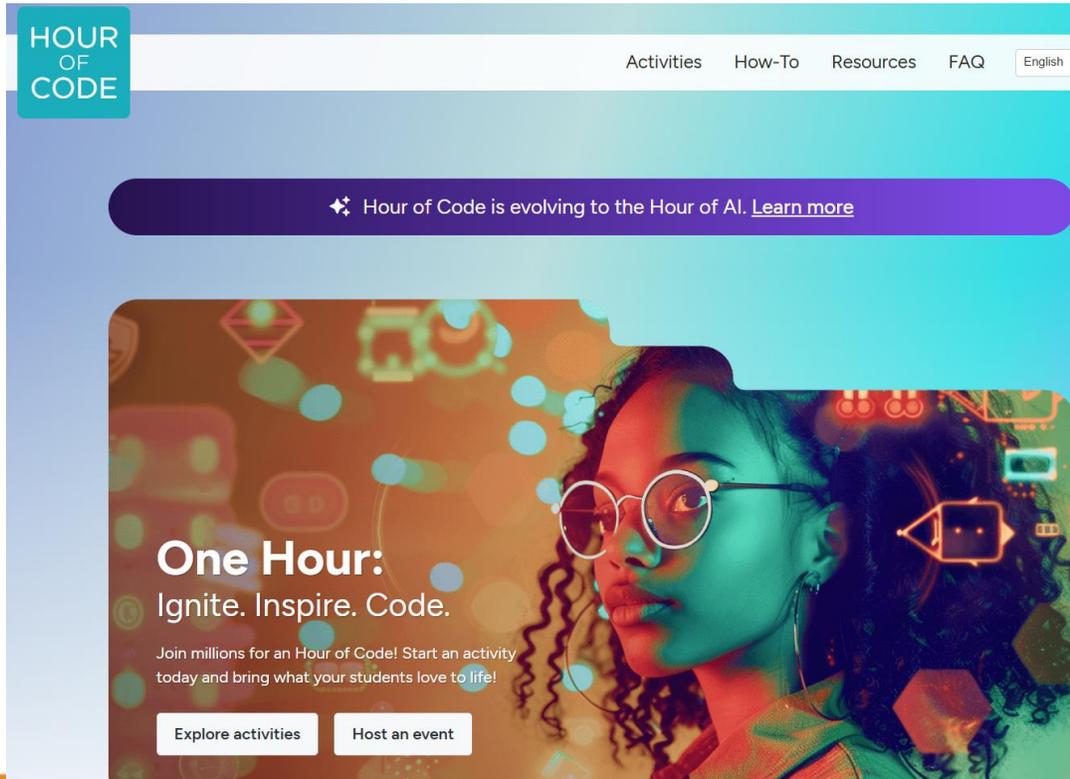- College degrees
  - Bachelor (4 year)
  - Associate (2 year)

Online Resources - ISEEK

- ISeek 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.
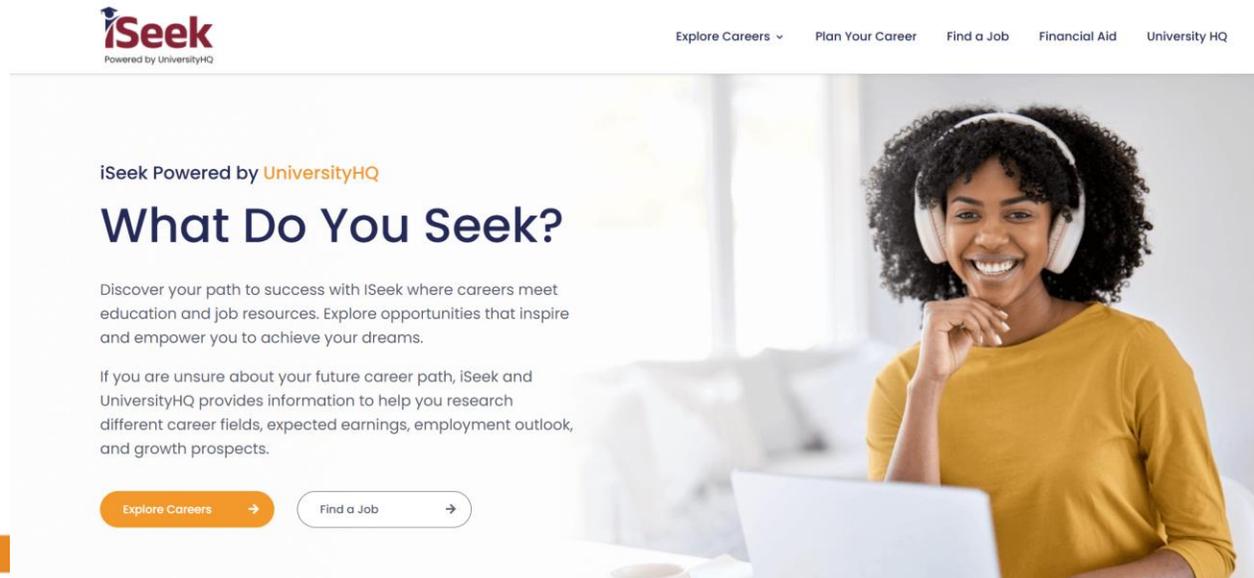
Online Resources – Free!

- http://hourofcode.com/us (part of www.code.org)
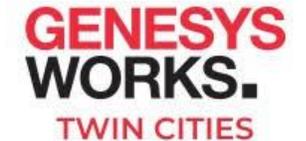
- Khan Academy

Twin Cities Resources

Code Savvy (www.codesavvy.org)
- Programs
  - CoderDojo
  - Technovation Challenge
  - Code Clubs
  - Get with the Program
  - Code Camp for Kids
  - Learn to Code
- Partners
  - Digital Empowerment Academy
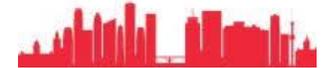 - Katie CoderDojo
  - Tonka CoderDojo

Genesys Works
- Trains and employs high school students
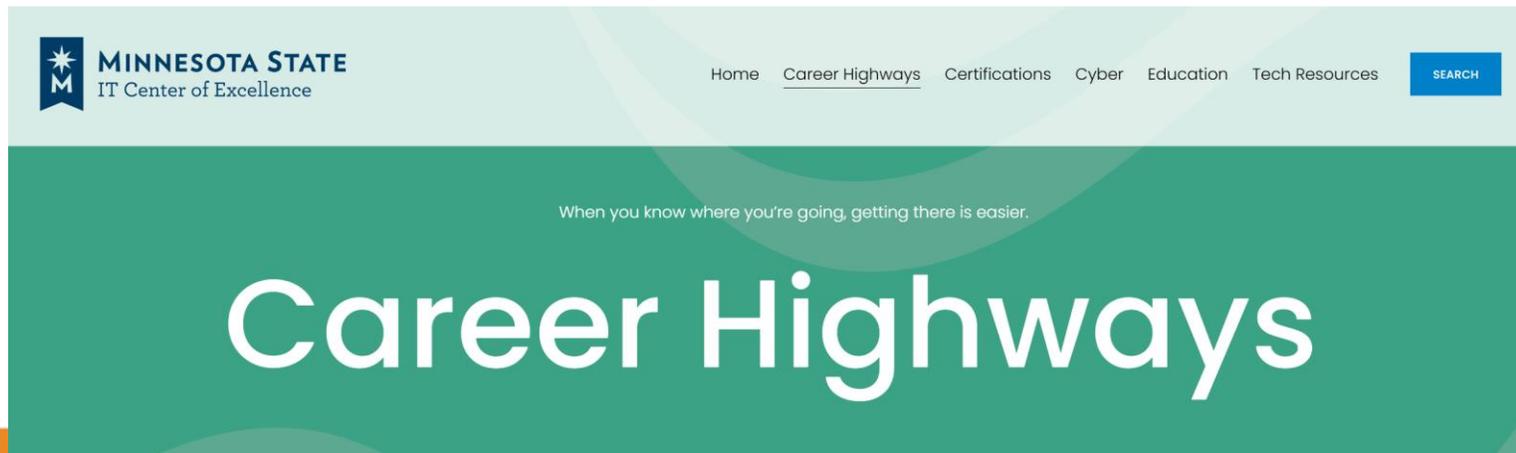
Best Buy
- Teen Tech Center

Twin Cities Resource –
Minnesota State IT Center of Excellence

Minnesota State IT Center of Excellence

– More geared to general IT topics versus programming

– Internships

– Cybersecurity

– Education

– Career Development

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Questions?

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Student Survey

Thank You!

BestPrep gratefully acknowledges the support provided by sdg to offer Career in Information Technology as a part of Classroom Plus.

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