Southeast Tech

Information Technology and Computer Information Systems Program Overview

EXECUTIVE SUMMARY

Purpose:

To provide the School Board information about the Information Technology and Computer Information Systems programs at Southeast Tech.

The presentation will provide the School Board information about the Information Technology and Computer Information Systems programs at Southeast Tech, and introduce the principals involved. The Information Technology programs include Computer Technician, Network Administrator, System Administrator and Information Technology Security. The Computer Information Systems programs include Software Support Specialist and Computer Programming. The information shared will include data on the faculty, students and graduates of Southeast Tech, program details, student demographics and career/employer information. These programs include AAS Degrees and one year diploma programs and provide students many opportunities by utilizing a stacked diploma for each AAS Degree.

Administrative Recommendation to School Board:

To acknowledge the Southeast Tech programs Overview Report.

Report Prepared by: Academics

Presented by: Southeast Tech Faculty

January 3, 2018

SOUTHEAST TECH

Information Technology

Computer Technician
Network Administrator
System Administrator
Information Technology Security

Who we are and what we do

Author : Todd Wohlwend

Todd Wohlwend

- STI – 20 Year Instructor
  - System Administration Program Advisor
- RHCSA Certified
- Cisco Trained
- VMware VCP Trained
- SDSU – 8 Year Instructor
- MS – Industrial Management
- BS – EE Technology

South Dakota State University

redhat.
CERTIFIED SYSTEM ADMINISTRATOR

Merrel Pepper

- STI – 20 Years Instructor
  - Network Administrator
    Program Advisor
- Cisco Trained - CCNA
- MS – Exercise Physiology
- BA – Math HPER

CISCO
CCNA

UNIVERSITY OF Nebraska Lincoln

AU AUGUSTANA UNIVERSITY

Ken Schaffer

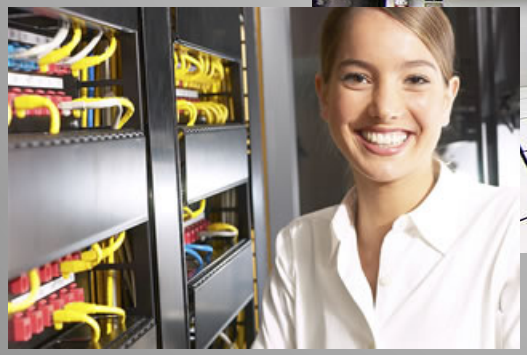
- STI – 9 Year Instructor
  - IT Security Program Advisor
- VMware VCP Trained
- Red Hat Trained
- BS – System and Network Administration
- AAS – System and Network Administration

SOUTHEAST TECH

BELLEVUE UNIVERSITY

Information Technology

- Computer Technician – (1 year diploma)
- Network Administrator – (roads)
- System Administrator – (vehicles)
- Information Technology Security – (police)

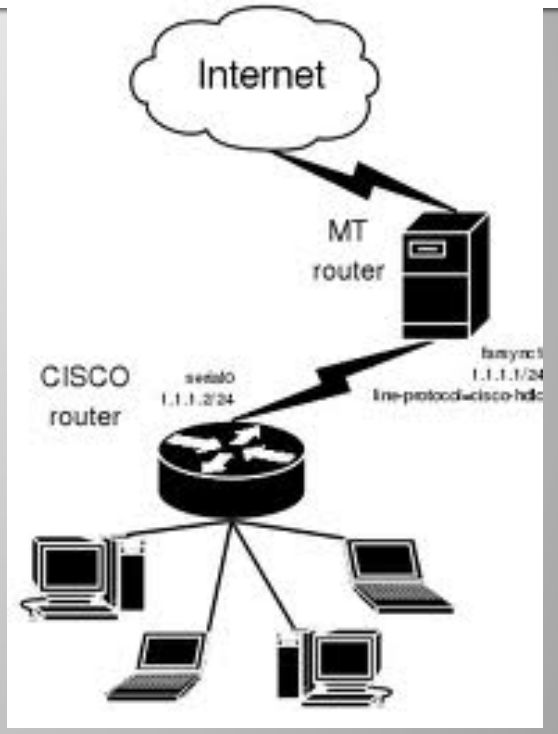


Computer Technician

- *First Year Common Core*
  - *Operating Systems*
  - *Hardware*
  - *Basic Networking*

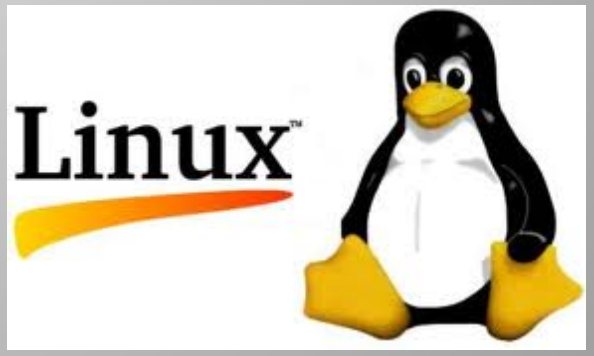
Network Administrator

- *Transmission Media*
  - Copper - Cabling
  - Wireless
- *Hardware*
  - Routers
  - Switches
  - Bridges
  - Access Points
- *Full Evening Program*



System Administrator

- *Operating Systems*
  - Windows
  - Linux
- *Software and Services*
  - *Network Users*
  - *Rights Assignment*
  - *Network Services*
    - DHCP / DNS / AD / Web servers



Information Technology Security

- Hardware Security
  - Networks
  - Servers
  - Firewalls
- Information Security
  - Backups
  - Security Policies
  - Risk Assessments

Lab Anywhere Anytime

- *Lab time*
  - 80 lab / 20 lecture rule
  - Capstone projects
  - Virtual environments on laptops at home

Advisory Board

- *Workplace IT*
- *Sanford Health*
- *City of Sioux Falls*
- *SDN*
- *Source, Inc*
- *Minnwest Bank*
- *Eros Data Center*
- *Kreisers*
- *CTE*
- *Heart Hospital*
- *Good Samaritan*
- *Tech Services*
- *Horizon Health Care*
- *Lennox School*
- *Furniture Outlets USA*
- *CoSentry*
- *RTI*

Where are the Local Jobs

- *Midco*
- *SDN*
- *EROS*
- *Workplace IT*
- *Sanford / Heart Hospital*
- *Any organization with a network and Internet presence*

citibank

SANFORD HEALTH

MIDCO

Geek Squad

City of Sioux Falls
SOUTH DAKOTA

workplace
I.T. Management

RTI
RIVERSIDE TECHNOLOGIES, INC.

Avera Heart Hospital
The Heart Hospital.
www.SouthDakotaHeart.com

Salary

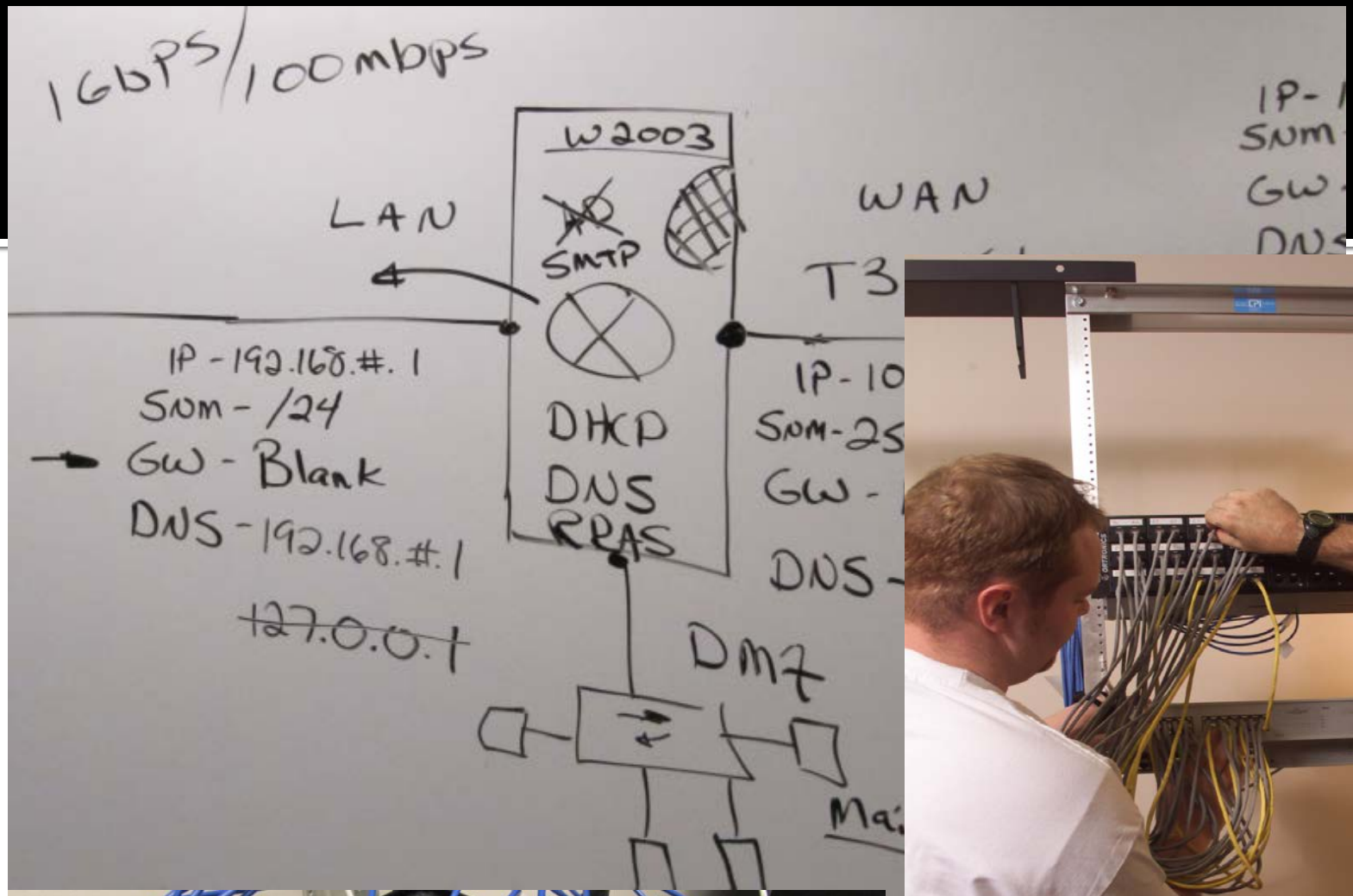
- Graduates typically expect $40,000 to $48,000 annually in the Sioux Falls area with a successful 2 year degree and good references

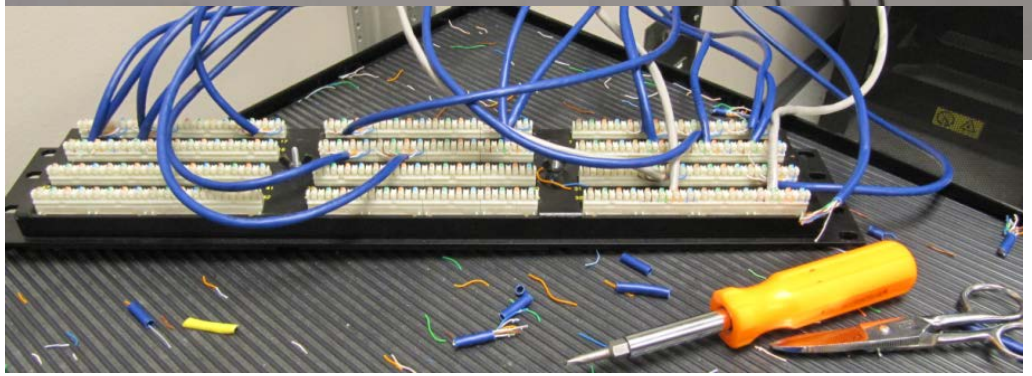
Current Statistics

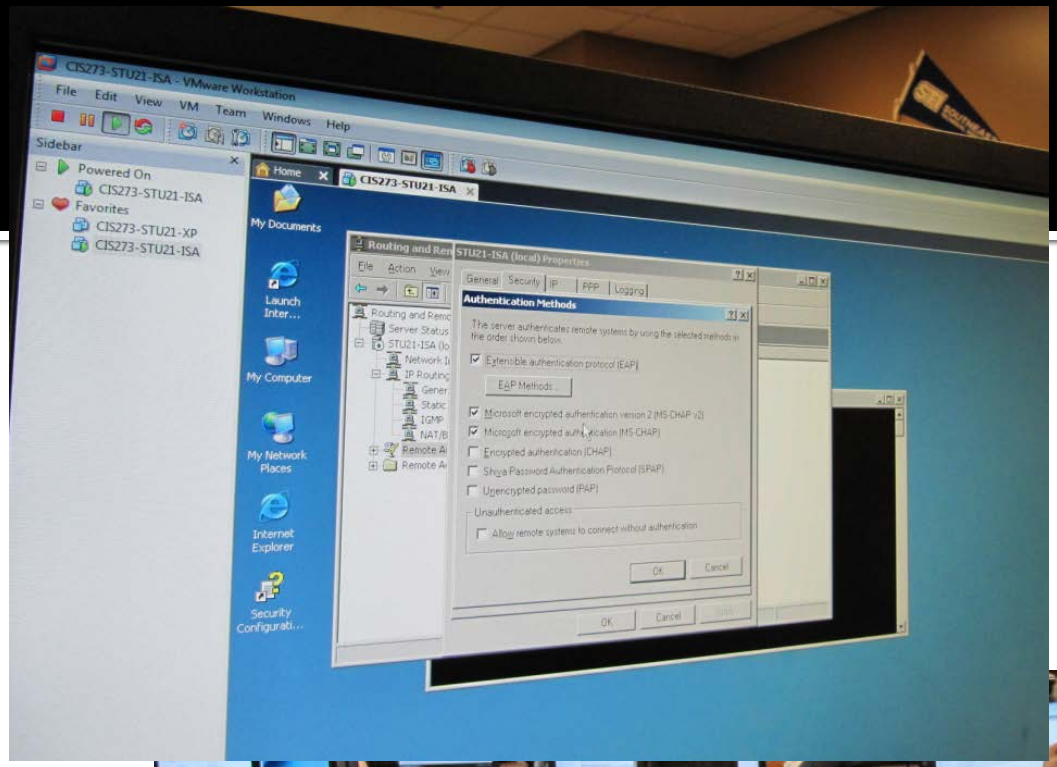
- Enrollment
  - 70 first year day students
  - 40 second year day students
  - 30 night program students
- Graduates
  - 50-60 AAS degrees annually
- Placement
  - 90% of graduates have jobs in field at graduation

PAPER ONLY

Notes:
- Team Lead lab points email- only to instructor!
- Lab performance
- Pictures
- Documentation Binder Example


1GBPS/100mbps
W2003
LAN
WAN
SMTP
T3
IP - 192.168.#. 1
SUM - /24
GW - Blank
DNS - 192.168.#.1
127.0.0.1
DHCP
DNS
RRAS
DMZ




CIS273-STU21-ISA - VMware Workstation
File Edit View VM Team Windows Help
Sidebar
Powered On
CIS273-STU21-ISA
Favorites
CIS273-STU21-XP
CIS273-STU21-ISA
Home
CIS273-STU21-ISA
My Documents
Launch Inter...
My Computer
My Network Places
Internet Explorer
Security Configurati...
Routing and Remote Access
STU21-ISA (local) Properties
General Security IP PPP Logging
Authentication Methods
The server authenticates remote systems by using the selected methods in the order shown below.
Extensible authentication protocol (EAP)
EAP Methods...
Microsoft encrypted authentication version 2 (MS-CHAP v2)
Microsoft encrypted authentication (MS-CHAP)
Encrypted authentication (CHAP)
Shiva Password Authentication Protocol (SPAP)
Unencrypted password (PAP)
Unauthenticated access
Allow remote systems to connect without authentication
OK
Cancel

DELL

DELL

IN USE

Questions

SOUTHEAST TECH

Computer Information Systems

Software Support Specialist
Computer Programming

Who we are and what we do

Authors: Roger Morris & Cindy Roller

Faculty and Staff

- Two full time staff
  - Cindy Roller
    - 27 years teaching experience
    - 29 years experience in the field
  - Roger Morris
    - 21 years teaching experience
    - 34 years experience in the field

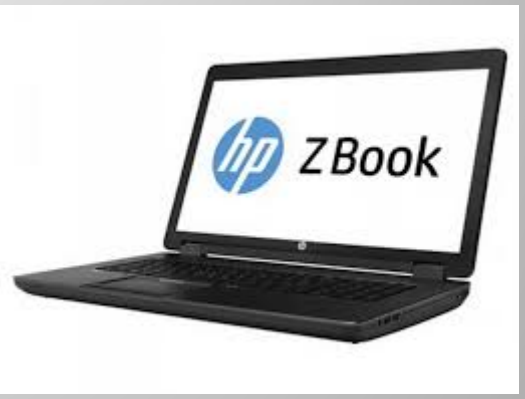
- Four part time staff
  - Gary Kappenmann
  - Janet Stahl
  - Jason Braucht
  - Kris Jones

Our Program

- Computer programs touch everybody's life on a daily basis
- Programs are the "behind the scenes" aspect in the computer world

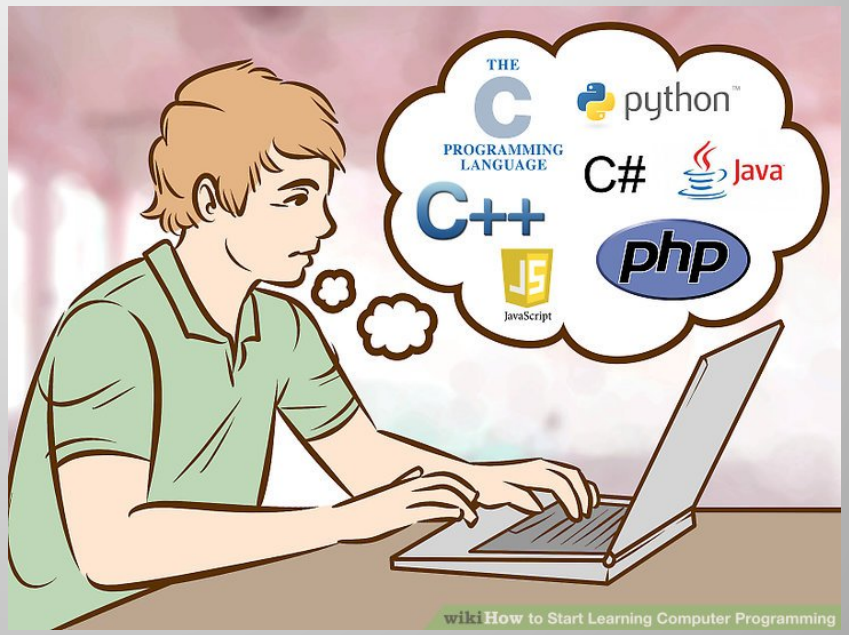
Computer Information Systems

- **Software Support Specialist**
  - 1 Year Diploma
- **Computer Programming**
  - 2 Year AAS Degree
- **Computer Programming Online**
  - 2 Year AAS Degree



Computer Programming

- *Languages*
  - *C#*
  - *Java*
  - *JavaScript*
  - *ASP.NET*
- *Databases*
  - *Microsoft SQL Server*
  - *MYSQL*

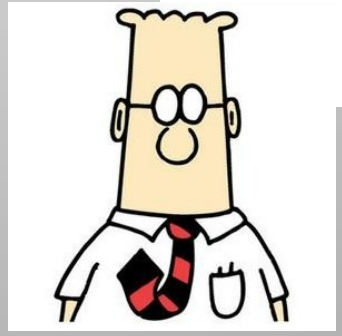


Advisory Board

- *Midco*
- *CNA Surety*
- *Kreisers*
- *Hartman Technologies*
- *Cars For Sale*
- *Apogee Apps*
- *SD Technology Business Center*
- *Daktronics*
- *Software Alternatives*
- *Metabank*

Job Titles

- Software Developer
- Developer
- Software Engineer
- Programmer Analyst
- Programmer
- Web Developer



Careers

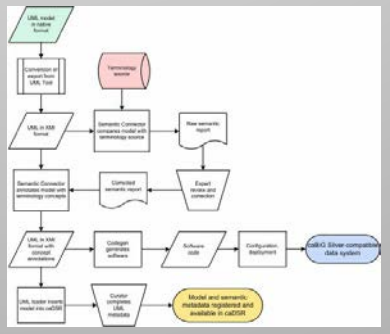
- Bureau of Labor Statistics predicts 30% growth in Software Developers, Applications between (2016 – 2026) with median salary of $100,080
- Southeast Tech Grads
  - 2016 100% job placement with $35,000 average salary
  - Highest entry-level salary was $54,000

Employers

- Midco
- Software Alternatives
- Carsforsale.com
- Cabelas (NE)
- SpEd Forms (MN)
- State of SD
- Flavor Mob
- Blend Interactive
- …

Student Skills

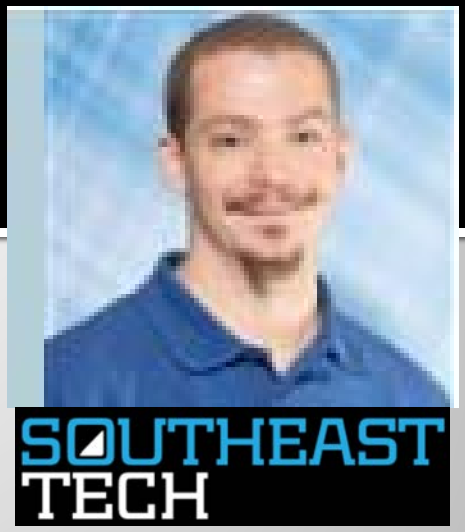
- Successful students benefit from these attributes:
  - Patience
  - Problem solving
  - Logical thinking
  - Lifelong learning
  - Detail Oriented
  - Good Communicator



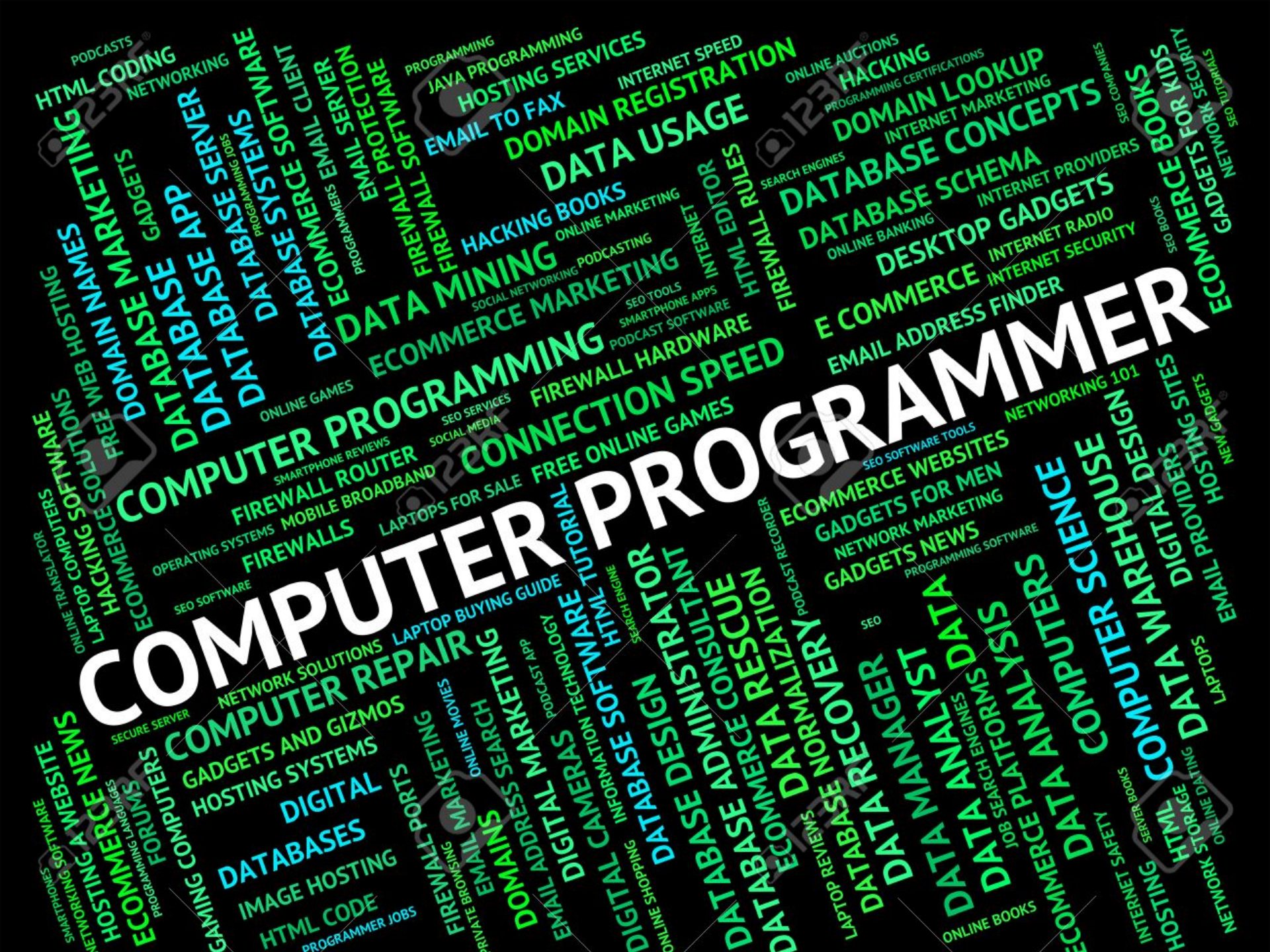
Student Data

- Age range: 16 to 65
  - Austin (17) – Knew his career path in high school
  - Betsy (31) – New wife & mom from Virginia; changing her career online
  - Michael (65) – Updating programming skillset
- Enrollment:
  - Online numbers doubled from 2015-16 to 2017-18
  - Traditional numbers also improving

A Personal Story



- Kris Jones
  - Graduated in 2009 in Computer Programming
  - Graduated in 2011 in Digital Media Production
  - Present Employment
    - Assistant Technology Coordinator Brandon Valley School District
    - Adjunct Instructor at Southeast Tech
    - Lead Animator / Co-Owner at Bear Logic Labs


COMPUTER PROGRAMMER
COMPUTER PROGRAMMING
COMPUTER REPAIR
DATABASE APP
DATABASE SERVER
DATABASE SYSTEMS
DATA MINING
DATA USAGE
DOMAIN REGISTRATION
DOMAIN MARKETING
DOMAIN LOOKUP
DATABASE CONCEPTS
DATABASE SCHEMA
DESKTOP GADGETS
E COMMERCE
ECOMMERCE MARKETING
ECOMMERCE BOOKS
ECOMMERCE WEBSITES
CONNECTION SPEED
FIREWALL ROUTER
FIREWALLS
FIREWALL HARDWARE
FIREWALL SOFTWARE
FREE ONLINE GAMES
HACKING BOOKS
HACKING SOLUTIONS
HOSTING SERVICES
HTML CODING
HTML TUTORIAL
INTERNET SECURITY
LAPTOP BUYING GUIDE
LAPTOPS FOR SALE
NETWORK SOLUTIONS
NETWORKING 101
DATA ANALYST
DATA MANAGER
DATA RECOVERY
DATABASE ADMINISTRATOR
DATABASE DESIGN
DATABASE RESCUE
DIGITAL CAMERAS
DIGITAL MARKETING
DOMAINS
EMAIL ADDRESS FINDER
EMAIL PROTECTION
EMAIL SERVER
FREE WEB HOSTING
GADGETS AND GIZMOS
GADGETS FOR MEN
GADGETS NEWS
HOSTING SYSTEMS
IMAGE HOSTING
INFORMATION TECHNOLOGY
JAVA PROGRAMMING
NETWORK MARKETING
SEO SOFTWARE TOOLS
SEO TOOLS
SEO SERVICES
SEO COMPANIES
SEO BOOKS
SEO TUTORIALS
SEARCH ENGINE
SEARCH ENGINES
SOCIAL MEDIA
SOCIAL NETWORKING
SMARTPHONE APPS
SMARTPHONE REVIEWS
PODCAST SOFTWARE
PODCASTS
PROGRAMMING
PROGRAMMING CERTIFICATIONS
PROGRAMMING JOBS
PROGRAMMING LANGUAGES
PROGRAMMING SOFTWARE
PROGRAMMERS
ONLINE AUCTIONS
ONLINE BANKING
ONLINE BOOKS
ONLINE DATING
ONLINE GAMES
ONLINE MARKETING
ONLINE MOVIES
ONLINE SHOPPING
ONLINE TRANSLATOR
OPERATING SYSTEMS
PODCAST APP
PODCAST RECORDER
PRIVATE BROWSING
PROGRAMMER JOBS
SECURE SERVER
SERVER BOOKS
SMARTPHONES
SEO
SEO SOFTWARE
INTERNET EDITOR
INTERNET MARKETING
INTERNET PROVIDERS
INTERNET RADIO
INTERNET SAFETY
INTERNET SPEED
JOB SEARCH ENGINES
LAPTOP COMPUTERS
LAPTOP REVIEWS
LAPTOPS
HTML EDITOR
HTML RULES
HTML STORAGE
MOBILE BROADBAND
NEW GADGETS
NETWORK SECURITY
NETWORK STORAGE
NETWORKING A WEBSITE
NETWORKING SOFTWARE
DIGITAL PROVIDERS
DIGITAL SITES
EMAIL ADDRESS SEARCH
EMAIL CLIENT
ECOMMERCE FORUMS
ECOMMERCE SOFTWARE
ECOMMERCE RESCUE
ECOMMERCE SOLUTIONS
ECOMMERCE WAREHOUSE
ECOMMERCE COMPUTERS
ECOMMERCE DATA
ECOMMERCE DESIGN
ECOMMERCE GADGETS
ECOMMERCE HOSTING
ECOMMERCE MARKETING
ECOMMERCE SEARCH
ECOMMERCE SYSTEMS
ECOMMERCE SECURITY
ECOMMERCE TUTORIAL
ECOMMERCE TECHNOLOGY
ECOMMERCE NORMALIZATION
ECOMMERCE DATA
ECOMMERCE ANALYSIS
ECOMMERCE DATA
ECOMMERCE DATA
ECOMMERCE DATA
ECOMMERCE DATA
ECOMMERCE DATA
ECOMMERCE DATA
ECOMMERCE DATA
ECOMMERCE DATA
ECOMMERCE DATA
ECOMMERCE DATA

Questions

Thank You

Administrative Recommendation to School Board:

- To acknowledge the Southeast Tech: This is Our Story report.