



Boot Camp - Basics of Computer Coding

Adjusting to the Age of the Internet

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Boot Camp Basics

- A 26 Week Intensive Training in Coding
- For Web and Data Base Applications
- University of Arizona Continuing (Adult) Education
- Certificate as Full Stack Developer
- Classroom Three days/Week - 10 Hours
- Homework - up to 20 Hours

Boot Camp Basics 2

- Pre-Reqs: HS Diploma, No Age Limits
- Useful: 2-3 years in coding Internet access
- Job Ready at graduation – Placement rate above 90%
- Web Designer; Data Base Manager
- Salary range -- \$65-75k annual rate
- Jobs in industry, also remote placement for tech firms

Boot Camp Basics 3

- Central Campus Training Locations in Chandler and Tucson - Currently with 2-3 sections in each
- Class size 25-35 members
- Faculty - one senior Instructor and two TAs
- Class pace: Intense; one problem set each 25 minutes
- Teams of 5 resolve problem; assisted by TAs
- Covers JavaScript, MySQL, HTML5, GIT, etc.

Boot Camp Basics 4

- Internet interconnecting jobs remote access
- Amazon as Mechanical Turk - task oriented
- Facebook - Content Reviewers and QA
- IBM - Remote Programming Positions
- Google - Quality Reviewers
- Require 100mps+ Internet speeds

Boot Camp Basics 5

- Trilogy Education Services NYC is content provider
- Similar Programs at UNC Chapel Hill, CFU Florida
- Graduates fully job eligible and in-demand
- BLS reports wages of \$78-85k in 2016
- Approximately 300k jobs nationally
- DB Manager jobs increasing at 11% per year

Boot Camp Basics \$

- Tuition \$9,000 cash discount \$500
- Not FAFSA eligible – private loans via banks
- Not (yet) VA eligible
- Repayment plan available through Trilogy at interest
- Scholarships via employer education plans
- Potential community sponsorship

Other Area Technology Points

- BRSD Fab-Lab opens January – open enrollment eligible – Focus on machine fabrication and 3D printing – sort of modernized HS “Shop”
- Code.org offers free K-12 curriculum for programming
- Internet broadband by Cable One upgraded service – promotes 100mps service for business customers
- Internet Working Group in Payson & Show Low
- Rural Internet service expansion in current US Congress Budget Agreement passed Feb 2018



3D Printers at Fab-Lab
BRSD former Library of
Elementary School



HS Students Observe
BRSD Lab Designs



Graphic User Software
Demonstration



Future Prospects

- Internet Technology Employers
- Remote Data Centers
- National Emergency Notification Nodes
- Limitations: Capital, Skilled Workforce; Unity of Vision, Energy
- Alternatives Unclear
- Q&A