Travis Dean

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SUMMARY

Many years of independent programming expertise, alongside traditional classroom education in a variety of programming languages (preferred: C# and Python. Experience: C/C++/Java). Experience with multiple job types related to computer science and information technology. My website (travisdean.github.io) has a sampling of projects, with downloads and a link to my Github account.

RESEARCH EXPERIENCE

- **Perception Lab Research Assistant (Fall 2013 – Spring 2015):** Applied extensive knowledge of VR hardware and software systems to further Prof. Proffitt's lab work in studying perception.
  - Integrated technology like the Oculus Rift head mounted display, Intersense motion capture system, and other devices (game controllers, sensor arrays for tracking) to create immersive VR experiences.
  - Design and implementation of virtual worlds in Unity to test psychological constructs such as distance perception and the Proteus effect (users take on characteristics of their avatars).
- **Cryptography Lab Research Assistant (Summer 2013):** Collaborated with David Evan's group in cryptography at the University of Virginia.
  - Learned mathematical and cryptographic techniques to implement Garbled Circuits under an ongoing PhD student's mentorship.
- **High School Science Project 2010-2011:** Independent science project exploring algorithm optimizations.
  - Implemented various hypothetical optimizations to the general Genetic Algorithm approach for solving the Traveling Salesman Problem.

WORK EXPERIENCE

- **Computer technician (2011 – Present):** Acquired clients through networking and advertising. Solved various problems, from simple software configurations to full system construction.
- **Information Technology Intern (Summers of 2011, 2012):** Interned at Amherst County High School's Information Technology Department.
  - **2012**: Developed websites using PHP and SQL to design pages for database interaction. Worked with network and server management, collaborating with full-time programmers.
  - **2011:** Provided general computer technical support, including computer assembly and repair, systems integration, virus removal, and user support.

EDUCATION AND AWARDS

University of Virginia

Undergraduate — 2012-2016
B.A. in Computer Science
GPA: 3.3

Relevant Coursework

Computer Science:
CS 4993 - Independent Study (Machine Learning and Related Disciplines)
CS 4810 - Intro to Computer Graphics
CS 4710 - Artificial Intelligence
CS 4501 - Computer Vision
CS 4501 – Language Design and Implementation
CS 4414 - Operating Systems
CS 4102 - Algorithms
CS 3330 - Computer Architecture
CS 3240 - Advanced Software Development
CS 3102 - Theory of Computation
CS 2330 - Digital Logic Design
CS 2150 - Program and Data Representation
CS 2110 - Software Development Methods
CS 1501 - Graphics and Data Visualization

Awards

College Science Scholar
Echols Scholar
Intel Award for Excellence in Computer Science (2011)