Ashley Tharp

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Objective: Seeking internship/co-op/part-time work for Spring or Summer 2014.

Skills

Languages

Proficient in: C, C++, MIPS

Have also used: Java, Latex, Racket, MelScript

Development Environments/Tools

Unix/Linux: Vim, gdb, make, gcc, g++, Valgrind

Windows: Visual Studio, Other: Eclipse, Netbeans

Education

University of Texas at Dallas

BS Computer Science GPA: 3.057

Expected: Dec 2014

Collin College

AS Cum Laude 3D Animation GPA: 3.525

Awarded Dec 2009

Work Experience

Parasol Labs

Intern: C++ Developer

Research Topics: parallel autonomous robot

motion planning, approximate convex

decomposition of polyhedra

Moroch LP

Animator, Interactive Design Aug 2007 – Nov 2009

ReelFX

3D Generalist

Projects: Simpsons Motion Ride for Universal

Studios

Summer 2008

Private Tutor (Freelance in spare time)

C++, math, physics, violin

Id Software

Contract: Motion Capture Acting for DOOM 4

June 2008

Academic Projects

Optimization of ACD Algorithm

During internship at Parasol added an edge collapsing step, and an edge mapping algorithm using Dykstra's shortest path algorithm step to Parasol's existing ACD algorithm for better running time. Wrote research paper and competed in poster session.

MIPS Towers of Hanoi Implementation

Wrote program that displays a visual step by step solution to the Towers of Hanoi Puzzle. Implemented Recursively.

C++ State Machine

Wrote state based machine for parsing mathematical expressions.

C++ CPU Simulation Using Processes

Wrote program with a team that simulates operation of the CPU and memory.

C++ Traveling Salesman Implementation

For finding the shortest past between two cities.

Unfinished Side Projects

Lustre Distributed File System

Install and configure Lustre on a virtual network using VirtualBox.

Spatial Indexing in Parallel

Image searching algorithm to be implemented in parallel.

Linux Girl Scouts Badge

Creating tutorials and documentation and badge design for troop leaders to use to earn a Linux Badge.

Relevant Courses

C++ in Unix, Computer Architecture, Advanced Algorithms, Operating Systems, Organization of Programming Languages, Calculus 2, CS 1,2 & 3