RUSSELL MILLER

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Looking for job as **Software Engineer**

Work Experience

'16-18 Apartment Management Intern

- Learned about family business
- Drew apartment layouts in AutoCAD to help with advertisement and organization
- '15-16 Bioinformatics Intern at UCD, Veterinary Genetics Lab, Mammalian Ecology and Conservation Unit
 - Rewrote old BASH scripts/pipelines, increasing efficiency by up to 200%
 - · Helped complete new scripts, converting and analyzing genomic data

Projects

- '16 Graphics Engine C++
 - Built from scratch drawing pixels, with capabilities including drawing lines, polygons, 3D objects, and curves
 - Objects can be translated, scaled, and rotated; polygons can be colored and shaded in; save and load objects
- '15 Virtual Machine C++
 - Capabilities including multithreading, memory management, and file input and output
- '15 FortNitta Obj-C
 - Game written for iOS; Worked in group of 15 people collaborating with entire class using GitHub
- '15 DarkMaze C++
 - Creates a randomly generated 2D maze; Uses breadth first search to find and guarantee an optimal solution
 - Competition to write a solver in C++ using the program's movement interface functions
- '14 Minesweeper C++
 - Creates a randomly generated puzzle; Eliminates some impossible to solve puzzles
 - Competition to program a solver in C++ using functions that mimic the usual mouse interface

Education

- '12-17 University of California Davis
 - B.S. in Computer Science

GPA: 3.5

CS major GPA: 3.9

Relevant Coursework

- Data Structures
- Software Engineering
- Database Systems
- Graphics

- Algorithm Design/Analysis
- Parallel Architecture
- · Operating Systems
- Stat Analysis Thru Comp

Skills

Languages

- Experienced with: C++, C, Java, Git, BASH, UNIX, Assembly Language
- Briefly worked with: Obj-C, SQL, GPU Programming, MatLab, Perl, R, AutoCAD
- Other: Japanese

Other Experience

- '14-15 Davis Computer Science Club Officer Pragmatic Programming Committee Chair
 - Led Tutorials in GDB debugging and Git 4 workshops, total ~100 people
 - Led Competitions to create programs that solve puzzles of my creation
- '13-15 CS Club Tutor
 - Tutored and helped lead review sessions for 3 CS courses a few hrs/week in spare time
 - Helped CS Club committee tutors with how to best help people learn
- '05-11 Boy Scout, Troop 764 Eagle Scout rank