

RUSSELL MILLER

Los Angeles, CA

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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++

- Round-robin scheduled multithreading with thread priorities and mutexes
- Virtual memory allocation and management and file operations such as open, close, read, and write

'15 FortNitta – Obj-C

- Game written for iOS; Worked in group of 15 people collaborating with entire class using GitHub
- Used concepts from software development life cycle

'15 Minesweeper; DarkMaze – C++

- Create randomly generated puzzles; have interfaces to allow a solver to be made by others in a competition
- DarkMaze uses breadth first search to find and guarantee an optimal solution

Education

'12-17 University of California, Davis

- B.S. in Computer Science
- GPA: 3.5 CS major GPA: 3.8

Relevant Coursework

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|-----------------------------|-------------------------|---------------------|---------------------------|
| • 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