RUSSELL MILLER

Davis, CA (310)-703-4125 rusmiller@ucdavis.edu github.com/blahs linkedin.com/in/rlmiller15

Skills

Languages

- Experienced with: C++, C, Java, Git, BASH, UNIX, R
- Briefly worked with: Swift, Obj-C, Perl, SQL, MatLab,
- Foreign: Japanese (somewhat)

Education

- '12- University of California Davis (expected graduation Spring 2017)
 - Computer Science and Animal Biology double major
 - GPA: 3.5 CS major GPA: 3.9
- '08-12 Loyola High School in Los Angeles

Relevant Coursework

- Data Structures
- Algorithm Design/Analysis
- Software Engineering
- Database Systems

- Operating Systems
- Bioinformatics
- Stat Analysis Thru Comp
- Genetics

- Systemic Physiology
- Intro to Evolution

Projects

- '15 DarkMaze C++
 - Creates a randomly generated 2D maze
 - Competition to write a solver in C++ using the program's movement interface functions
- '14 Minesweeper C++
 - Creates a randomly generated puzzle
 - Competition to program a solver in C++ using functions that mimic the usual mouse interface
- '14 Nonogram C++
 - Created a nonogram puzzle generator, simple solver, and solution checker
 - Input & output are text files, allowing solver implementation in any language
- '11-12 DungeonAdventure Java
 - 2D grid based game w/ heroes, monsters, and equipment
 - First large object oriented program, used graphics and user interfaces, like buttons, listeners, and windows
- '12 Tetris Java
 - Implemented showing next pieces, storing pieces, score, and bomb and oil special pieces
 - Used APCS case study library, Gridworld

Work Experience

- '15- Intern at UC Davis, 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

Other Experience

Davis Computer Science Club

- '14-15 Club Officer Pragmatic Programming Committee Chair
 - Led Tutorials
 - GDB debugging 3 Workshops ~75 people
 - Git Workshop ~15 people
 - Led Competitions
 - Minesweeper create program to solve as much as possible of puzzle
 - DarkMaze create program to navigate a 2D maze
- '13-15 Tutor
 - Tutored for 3 CS courses a few hrs/week in spare time
 - Helped lead review sessions for midterms and finals for audiences of 50+ students
 - Helped CS Club committee tutors with how to best help people learn

Before College

- '05-11 Boyscout, Troop 764
 - Eagle Scout
 - Leadership & Outdoor experience
- '11-12 Taught elementary school kids how to use an abacus
 - 2nd~5th graders, 1 hr/week