RUSSELL MILLER

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Looking for job as **Software Engineer**

Work Experience

'18-20 **Software Engineer** at General Atomics

- Became team expert on Continuous Integration, Docker, Meson build system
- Designed services and hardware adapters for the OMS messaging architecture using the UCI message interface
- Generated code, using Handlebars, to create the implementation of the OMS messaging architecture, the CAL
- Designed and implemented an OMS adapter for a radar
- Implemented TCP and UDP socket connections and management using Boost Asio

'16-18 **Apartment Management Intern** – Family Business

- Drew apartment layouts in AutoCAD; Learned about property management

'15-16 **Bioinformatics Intern** at UCD, Veterinary Genetics Lab, Mammalian Ecology and Conservation Unit

- Rewrote old, and created new BASH scripts/pipelines, increasing efficiency by up to 200%

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

Skills

Languages

- Experienced with: C++, Java, C, Bash, Linux, Unix, Python, Handlebars
- Worked with: Obj-C, SQL, GPU Programming, MatLab, Perl, R, Assembly Language
- Other: Japanese

Technologies

- Docker, Meson, CI, Git, Gitlab, Design Patterns, Unit Testing, Catch2, TCP, UDP, Protobuf, Boost Asio, ZMQ, PlantUML, AutoCAD

Education

'12-17 University of California, Davis

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

Relevant Coursework

- Data Structures
- Software Engineering
- Database Systems
- Graphics
- Algorithm Design/Analysis
- Parallel Architecture
- Operating Systems
- Stat Analysis Thru Comp

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

- Helped Club tutors with how to best help people learn; Tutored and helped lead review sessions

'19- U.S. Government Secret Clearance

'05-11 Boy Scout, Troop 764 – Eagle Scout rank