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
* Algorithm Design/Analysis
* Software Engineering
* Parallel Architecture
* Database Systems
* Operating Systems
* Graphics
* 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