

Kenneth Fryar-Ludwig

fryarludwig@gmail.com

(435) 503-5587

fryarludwig.com

linkedin.com/in/fryarludwig

Capable, experienced, and driven software engineering student seeking to contribute to long-term industry progress

Education

B.S. Computer Science

Utah State University, Logan, UT

Dec 2016

GPA 3.33

Technical Skills

Demonstrable proficiency in:

- C, C++, C#, Python, LaTeX, JavaScript, GUI's
- Linux, Windows, OS X, bash, Git, MS-VS, Qt
- Code review, unit tests, versioning, bug resolution
- Agile, modular, and open source development
- System design, documentation, release

Real-World experience with:

- Inter-organization software collaboration
- Java, SQL, CMake, HTML, Perl, PHP, Assembly
- Serial/wireless comms, traditional networking
- Embedded systems, bit-level code, threading
- Google Test, Valgrind, CppLint

Work Experience

Office of Naval Research Intern *Naval Postgraduate School*

Summer 2015

- Personally design and write 4,000+ lines of code in 5 weeks to create new, fault-tolerant, modular software
- Create accessible, intuitive software suite with flawless flight heritage and field implementation in Python
- Lead development, integration, testing for flight software/hardware and 5 ground operations systems
- Utilize 22 hardware systems to allow comprehensive, real-time situational awareness for mobile units
- Evaluate goals, time budget, and hardware capabilities to meet, if not exceed, changing customer expectations

Software Engineering Asst., *Space Dynamics Laboratory*

Mar. 2014 - Present

- Collaborate with teams to design and implement a variety of modular open-system-architecture software
- Contributed hundreds of features, tests, bug fixes, and optimizations in 8 unique projects and 4 languages
- Work independently and quickly gain proficiency in new projects, systems, software, and languages
- Exceed 90% line coverage in unit testing, use meticulous style rules, peer review all code
- Communicate effectively between customers, support engineers, and peer software engineers

Dedicated Server Technician, *UK2group*

Jan. 2015 - Jun. 2015

- Interface between 15+ international datacenters and their staff to ensure reliable network performance
- Configure, verify, troubleshoot, and "deliver" high-performance server products for clients and subcontractors
- Handle time-sensitive client communications, diagnostics, and maintain satisfaction in stressful situations

Independent Computer Specialist, *Self-employed*

2008 - Present

- Maintain, construct, configure, and repair professional and consumer systems according to customer needs
- Independently grow and maintain local and remote clientele through quality results and services
- Quality-oriented work ethic with an expectation of clear and concise communication

Residence Hall Association Events Coordinator, *Utah State University*

2012 - 2014

- Plan and execute events with 200-1000+ participants from conception to completion
- Coordinate interdepartmental communication for project teams and emergency management

Leadership Skills

Challenge Course Facilitator, *University Inn at USU*

2013 - 2014

- Conducted programs that emphasize team collaboration and personal responsibility with 300+ groups
- Implemented challenging team-oriented activities for 1500+ individuals of varying maturity

Continuous Improvement Manager, *USU Housing & Residence Life*

2012 - 2014

- Utilized student feedback to prioritize and complete 15+ projects and 40+ tasks within USU Housing
- Conducted opinion, usage, and technical research to evaluate need and feasibility of student suggestions

Chair and attendee at multiple national and international conferences, *Various Organizations*

2010 - 2014

- Anticipate and offer technical support for critical, time-sensitive conference services
- Presented complex and targeted information to 200+ individuals