Kevan Ahlquist

920 Delaware St. SE Apt. 3028, Minneapolis, MN 55414 | (320) 583-5412 | ahlqu039@umn.edu

Professional Summary

Software engineering with **focus on user experience**. Recent experience in designing, implementing, and deploying **web apps** with Python, hardening existing code to **eliminate security vulnerabilities**, and optimizing project workflows. Projects include a web app for event scheduling (Python, **github.com/kevana/ummbNet**), a web app for code review to encourage good development practices (Javascript), an automated antenna positioning system (**C**), and porting a DMX receiver from ASM to C (**github.com/teslaworksumn/HeadMaster**). Familiar with **git**, **svn, TFS** usage and best practices.

Technical Skills

Programming Languages	**Python**, **HTML**, **SQL**, **JavaScript**, CSS, **C**/C++, Java, Assembly, shell scripting
Systems / Platforms	**Windows** XP/Vista/7/8, Server 2008, **OS X**, Linux (Debian, Ubuntu)
Software / Tools	**git**, **svn**, **TFS**, Visual Studio, Office, ssh, gdb, diff tools, Apache, nginx, uwsgi, **Flask**, **SQLAlchemy**
Concepts	**Secure SQL design**, **Python web development**, REST, OOP, ORM, **Unix systems programming**, TCP/UDP networking, threading, relational database modeling

Education

University of Minnesota   Minneapolis, Minnesota
College of Science and Engineering   Spring 2014
Bachelor of Science
Major: Computer Science
GPA: 3.60

Job History

Open Access Technology International (OATI)   Minneapolis, MN
Jr. Software Developer Intern (SQL, HTML, CSS, Javascript, C#)   Oct. 2013 – Feb. 2014
OATI is a software-as-a-service provider for the energy industry, providing transmission management, trading, and compliance systems.

- Designed and implemented code review web app for company-wide use (Javascript)
- Refactored SQL procedures to **eliminate security vulnerabilities** and improve performance
- Performed **peer code reviews** daily to reinforce development best practices
- Converted existing applications from proprietary scripting language to ASP.NET framework

Superior Access Solutions (SAS)   Lakeville, MN
Software Developer Intern (C/C++, Python)   Jan. 2013 - Oct. 2013
SAS is a small systems integrator that specializes in networking and video transmission solutions

- Designed a tool to **stress test** and **monitor** the health of network segments carrying video broadcast streams (RTP protocol, **Python**, C)
- Created a KLV **metadata generator** with **C** for use in unmanned aviation systems
- Implemented **driver features** for automated antenna positioning system (**C**)

University of Minnesota 1-HELP   Minneapolis, MN
Technology Support Representative – **Student Employee Leadership Program**   Aug. 2010 – Nov. 2013

- Utilized effective communication skills to quickly **resolve customer issues**
- Created **documentation** and **guides** for systems used by 50,000+ people
- Trained new employees on **customer service** best practices and **efficient troubleshooting**

Other Activities

University of Minnesota Bands – Lead trumpet   2010 - 2014
Bluecoats Drum and Bugle Corps – Lead trumpet, **equipment manager**   2012 - 2013
Boy Scouts of America – **Eagle Scout**, Jr. Assistant Scoutmaster   2003 - 2011