KRYSTAL LEE

leex5444@umn.edu ♦ 1351 Carling Drive Apt. 341, St Paul, MN 55108 ♦ 630-770-7046
www.krystallee.net

EDUCATION

University of Minnesota – Twin Cities   Expected May 2016
B.S. in **Computer Science**
Specialized in **Databases** and **Software & Data Systems Development**
GPA: 3.24

PROJECTS *more projects at www.krystallee.net*

LRU PostgreSQL **[C]**   Oct to Nov 2015
- ♦ Led a team of 2 in editing PostgreSQL to use a LRU buffer management policy.
- ♦ Shifted through thousands of lines of code and documentation to properly implement.
- ♦ Ensured results by running extensive tests against original source code using SQL.

PhotoGallery **[Python, HTML, CSS, JavaScript]**   Oct to Nov 2015
- ♦ Coded a dynamically generated web app allowing users to upload and delete images.
- ♦ Incorporated user authentication and restrictions with a CGI program that uses cookies and a MySQL database to track user account information.

RayTracer **[C/C++]**   Sep to Nov 2015
- ♦ Created program that takes a scene description and generates a 3D image.
- ♦ Designed from ground up without libraries resulting in over 3000 lines of code.
- ♦ Provided robust code that would consider many different images, textures, projections, and light sources.

ImageShop **[C++, HTML, CSS]**   Feb to May 2015
- ♦ Led a team of 3 in designing, developing, and testing a project allowing users to draw and edit images using 2 different programs that could run via GUI or command line.
- ♦ Used Model View Controller and Factory Method designs to condense base code into a library that the 2 application programs used.
- ♦ Documented project through both Doxygen and a multi-page website.
- ♦ Tested the programs extensively using CxxTest and Makefile testing.

SKILLS

Languages: C/C++, Python, Java, OCaml, JavaScript, PHP, SQL, MATLAB
Operating Systems: Unix, OS X, Linux, Windows
Software/Databases: Git, Visual Studio, Eclipse, Emacs, MySQL, PostgreSQL
Other: HTML/XML, CSS