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**www.krystallee.net**

**Krystal Lee**

**EDUCATION**  
University of Minnesota – Twin Cities Expected May 2016  
B.S. in Computer Science   
GPA: 3.24

⧫ Specialized in*Databases* and *Software & Data Systems Development*

⧫ Dean’s List 2015

**PROJECTS** *more projects at www.krystallee.net*  
LRU PostgreSQL **[C]** Oct to Nov 2015

⧫ Led a team of 2 in editing PostgreSQLto 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