
Education:

California Polytechnic State University, Pomona
Senior Standing
Bachelor of Science in Computer Science
GPA: 3.23/4.00

Expected Graduation Date: December 2015

Personal Site: <http://emilycup.github.io/>

Job Experience:

Student Assistant | Cal Poly Pomona Computer Science Department

Sep 2014 - Present

- Grade projects and tests for a C++ Programming course
- Use Bash scripts to automate project grading

Quality Assurance Intern | Esri

Jun 2014 - Sep 2014

- Assessed the speed and viability of an in-house test runner for future use
- Ran and reported results from automated tests across a series of operating systems
- Reimaged and managed an inventory of my team's machines

Software Engineering Intern | Jet Propulsion Laboratory

Jan 2014 - May 2014

- Developed an automated GUI for the Ice Sheet System Model (ISSM), a polar climate application
- Customized an open source Java application to ISSM
- Created XML files using MATLAB from calculated data
- Used the Unix shell in a Linux environment

Academic Projects:

Computer Networks

- Implemented Ipv4 along with its checksum algorithm using bit manipulation
- Completed using socket programming in Java

Web Development

- Built an initial prototype for an ecommerce website using Axure
- Created and designed the website using HTML, CSS, JavaScript, and jQuery

Application

- Designed and implemented Dijkstra's algorithm in an application which computed the shortest distance between two cities in Java

Related Courses/Skills:

- Discrete Structures
- Computer Logic
- Data structures & Algorithms in Java
- Interactive Web Development
- Database Systems
- Computer Networks

Programming & Mark-up Languages:

Java, C++, UNIX, HTML5, CSS, JavaScript, SQL

Software:

Eclipse, Microsoft Visual Studio, Sublime, Xcode, AptanaStudeo3, Vim

Interests:

- Outdoor activities such as cycling, hiking, and rock climbing
- Performing original songs at coffee shops, competitions, and charity events
- Keeping up with the latest in technology via blogs, podcasts, and technological news sites