

## Andre Mercer

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Github (<https://github.com/amercer1/>)

[www.andremercer.com](http://www.andremercer.com)

### **OBJECTIVE**

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I am seeking a programming role in an industry or organization where I can apply my computational skills, mathematical knowledge and my analytical/problem-solving abilities to meet the needs and responsibilities of the place of employment.

### **EDUCATION**

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University of Arizona – Tucson, AZ  
B.S. Computer Science, Mathematics

Graduated August 2013

### **RELEVANT EXPERIENCE**

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iPlant Collaborative (<http://www.iplantcollaborative.org/>) – Tucson, AZ

#### **Student Systems Intern**

May 2012 – August 2013

- Systems Admin - Maintained and monitored systems that housed iPlant cyber infrastructure.
- Tool Integration and Maintenance - Installed, rewrote, and repair applications developed by iPlant Developers and Users on our shared platform known as the Discovery Environment.
- Dev-Ops - Developed a Libcloud deployment wrapper using Fabric, the python library for use of SSH for application deployment. This wrapper was used in iPlant's Atmosphere Application.
- Created small web wireframe to communicate with the Texas Advance Computing Center API. This application would in turn launch, query, and stop scientific applications running on cluster located at TACC. This wireframe was adopted by iPlant Developers to customize their own applications and create tool pipelines.
- Developed an API to query systems and present them as a dashboard (using Node.js and Ember.js).
- Created Nagios plugins to monitor time in between ssh and vnc sessions.

#### **CSUPERB Conference**

January 2013

- Invited and attended as a guest and speaker for Atmosphere Cloud Computing Workshop

### **SKILLS**

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- Programming Experience (in order of familiarity) – Java, bash scripting, Ruby, bash scripting, C, Python, Web Development, R, SQL, Ember.js, Node.js
- Behavior and Test Driven Development – Familiar with Rspec, and Cucumber.
- Pair Programming - About a third of projects in school were done in pair programming style. I familiar with this system, and enjoy it throughly.
- Public Speaking – Taught workshops about dealing with procrastination, study habits, and time management. These workshops were given in the attendees of 10 to 30 for about 2 hours.

### **INTERESTING COURSE WORK**

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August 2009 – Present

- Computer Science Courses: Systems Programming, Networking, Algorithms, Operating Systems, Web Programming, Object Programming and Design, Artificial Intelligence, Machine Learning
- Mathematics Courses: Probability, Statistics, Numerical Analysis, Introduction to Cryptography, Linear Algebra

### **VOLUNTEER WORK**

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- As a cancer survivor, I frequently give speeches about the disease and my course in life as the result of cancer's effects on me. I try to inspire other victims and survivors to remain hopeful and to continue to do great things. I also volunteer at my local church for the duration that I have been in college, and the University Medical Center to meet other cancer patients.

### **TEAMWORK**

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- Math Cats

September 2009 - May 2013

- Game Development Club

August 2011 – May 2012