

# ANDREW CARLSON

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## PROFILE

I'M A PROGRAMMER WITH CHEMISTRY AND CHEMICAL BIOLOGY TRAINING SEEKING OPPORTUNITIES TO APPLY MY INTERSECTIONAL SKILLS IN SOFTWARE AND SCIENCE.

## EDUCATION

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

August 2013 – June 2014

*M.S. Chemistry*

- GPA: 4.0
- Studied pharmacological properties of marine natural products and their synthesis via experimental and computational tools.
- Published work: *Tetrahedron Letters* **2015**, Vol. 56, Issue 23, pg 3612–3616.

### UNIVERSITY OF CALIFORNIA, RIVERSIDE

August 2009 – June 2013

*B.S. Chemistry, Math minor*

- GPA: 3.7/4.0, graduated with honors
- Built synthetic derivatives of firefly luciferin for biological assays with Prof. Michael Pirrung.

### DEV BOOTCAMP | SAN FRANCISCO, CALIFORNIA

February 2015 – June 2015

- Completed 19-week curriculum focusing on Ruby on Rails, JavaScript, SQL, HTML, and CSS.
- Honed skills in a pair programming environment focusing on agile and test driven development.
- Gave a school-wide lecture on the subject of recursion during “algorithms night.”

## DEVELOPER SKILLS

- |                       |                                   |                               |
|-----------------------|-----------------------------------|-------------------------------|
| ▪ Ruby on Rails       | ▪ HTML5                           | ▪ NodeJS                      |
| ▪ Python              | ▪ CSS3                            | ▪ Git(hub)                    |
| ▪ Javascript (jQuery) | ▪ SQL (Object-relational Mapping) | ▪ Agile Development           |
| ▪ AngularJS           | ▪ Rspec (Test-driven Development) | ▪ Object-oriented programming |

## PROJECTS

### DARITY | *teamdarity.herokuapp.com*

- Social media app allowing users to pledge money to persuade other users to film provocative dares. Proceeds go to charity.
- Team project Rails app that manages many resources and database relations. Works with Twitter, YouTube, and Stripe APIs.

### WORDASSAURUS | *wordasaurus.herokuapp.com*

- Web-based text editing environment to expand your vocabulary and improve your writing.
- Users can click on words in their writing and receive instant suggestions of synonymous words to insert in real time.
- Solo project Sinatra app with an interactive AngularJS front-end.

## WORK EXPERIENCE

### ORGANIC CHEMIST

June 2012 – February 2015

*Medicinal Chemistry and Chemical Biology*

- Experience in both academic and industrial labs.
- Medicinal chemistry internship at Celgene. Academic research at UCR and UCLA.
- Scrupulous handling of hazardous chemicals and biological samples. Application of chemical principles and computation to design informed experiments.

### TEACHING ASSISTANT | UNIVERSITY OF CALIFORNIA, LOS ANGELES

August 2013 – June 2014

*Sophomore Organic Chemistry*

- Taught 30-person “discussion sections,” one-hour sessions that supplement lectures.
- Explained advanced concepts at an introductory level.
- Graded exams.

## AWARDS & SCHOLARSHIPS

- NIH Chemistry-Biology Interface Training Fellowship | UCLA
- 2013 ACS Division of Organic Chemistry Undergraduate Award | UCR
- Rosemary S. J. Schraer Award | UCR
- Chemistry Alumni Scholarship, Golden Key Honour Society Scholarship | UCR