

# Aidan Backus

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## Objective

I am looking for an internship that will allow me to gain experience applying my quantitative and computational skills to concrete, technical problems in operations research or engineering.

## Education

- 2016–2020 **B.A. Mathematics**, *University of California, Berkeley*, GPA 3.6.  
Currently enrolled. Studied discrete math, data structures, and upper division linear algebra freshman year.
- 2012–2016 **H.S. Diploma**, *Bear Creek High School*, Stockton, GPA 4.4.  
Graduated with most distinguished honors and as a California Scholarship Federation Lifetime Sealbearer. Studies emphasized journalism, mathematics, and string orchestra.

### Relevant Coursework

- CS 61A **The Structure and Interpretation of Computer Programs**, A-.
- Math 54 **Linear Algebra and Differential Equations**, A-.
- Physics 7A **Physics for Scientists and Engineers**, *classical mechanics*, B+.
- Math 110 **Linear Algebra**, *second course*, in progress.
- Math 55 **Discrete Math**, in progress.
- CS 61B **Data Structures**, in progress.

## Experience

### Volunteer

- 2010–Present **Administrator and Designer**, *Final Fantasy Wiki*.  
Database of content from *Final Fantasy* series of video games. Article writing, bot programming and website design and maintenance. Content viewable at <http://ff.wikia.com/wiki/User:Catuse167>.
- Created *Intangir Bot*, an automated editing script for repairing links, uploading images, etc., using the pywikibot framework.
  - Updated the wiki's forum templates (originally written in raw HTML, then in MediaWiki) to use the Scribunto API, greatly decreasing loadtimes and increasing ease of use. Talk bubbles are highly customizable by users, featuring for example color gradients and a "speech bubble" effect.
  - Introduced software to auto-generate HTML tables using data reverse-engineered from games. Originally created for use with *Final Fantasy XIV*, a game that has on the order of one million data entries and is updated every few weeks.

- 2014–2016 **Editor-in-Chief**, *The Bruin Voice*, Stockton, CA.  
 High school newspaper and online periodical, and one of the top five 8-page broadsheets in the US, according to the National Scholastic Press Association Pacemaker. Features campus news, current events, and opinion article writing. Duties included copy-editing, page layout, image editing, leadership and management; the staff's eight editors, responsible for writing and proofreading articles, creating graphics and taking photos, and laying out pages in InDesign, reported to me.
- Writing: [http://bruinvoice.net/staff/?writer=Aidan\\_Backus](http://bruinvoice.net/staff/?writer=Aidan_Backus).
  - Sample layout: <https://drive.google.com/file/d/0Byo9uJUDFCX7d1Nsa2FKdkkxRzA/view>.
  - Earned honorable mention for article 'Math Transitions from Memorizing to Critical Thinking' in California Press Women 2014 High School Communications Contest.
- 2011–2015 **Volunteer Docent**, *Micke Grove Zoological Society*, Lodi, CA.  
 Taught young zoo visitors about primates, reptiles, birds, and other animals (including hissing cockroaches, Chilean pudus, and ringtailed lemurs) by describing their lifestyles, anatomy, and diet. Hosted birthday parties for children.
- 2014–2016 **Asst. Principal Viola**, *Central Valley Youth Symphony*, University of the Pacific.  
 Performed with various musical groups in San Joaquin County. Notable pieces played include Beethoven's Fifth Symphony and Suppe's Light Calvary Overture.
- Vocational**
- 2017–Present **Student Worker**, *CalDining*, UC Berkeley.  
 Preparation of food, busing tables, and dishroom work.

## Skills

### Computer skills

- Experienced CSS, InDesign, Java, Lua, MediaWiki, Python, TeX, XML  
 Proficient C, C#, Excel, Git, Linux (Debian, Fedora), JavaScript, Photoshop, SQL

### Languages

- English Native speaker  
 Spanish Collegiate level