John Echols

2734 Parker Street - Berkeley, CA 94704

§ +1 (434) 906 5225

•

□ jechols@berkeley.edu

•

□ www.johntechols.com

Education

University of California, Berkeley

B.S. Bioengineering,

3.1 GPA

Minor in Electrical Engineering and Computer Sciences

Relevant Course Work: Bio-mechanics, Instrumentation in Biology and Medicine, Information Devices and Systems, Discrete Math, Data Structures, Computer Architecture, Medical Imaging Signals and Systems, Artificial Intelligence

Research Experience

Vandsburger Lab

June 2017 - Present

Expected Graduation: May 2018

University of California, Berkeley

Berkeley, CA

Undergraduate Research Assistant

June 2017-Present

- Performed analysis of cardiac MRI images in MATLAB
- Collaborated with the University of Florida on a gene therapy for Friedreich's Ataxia

Leadership and Extracurricular Activities

University of California Marching Band

University of California, Berkeley

August 2014 - Present

Berkeley, CA

Student Director January 2017-Present

- Member of the 5 person Executive Committee responsible for planning band events, working with the university to create a positive public image, and managing a \$500,000 annual operating budget
- Lead of team of 6 members who together are responsible for all musical aspects of the 250 person organization
- Plan and coordinate with clients in order to facilitate over 100 performances throughout the Bay Area
- Lead and conduct the band during rehearsals as well as at all football and basketball games
- Coordinate with the Athletic Department in order to create an exciting fan experience at sporting events

Computer skills (proficiency in parenthesis)

Languages/Frameworks: Python (5/5), Java (5/5), C (3/5), MATLAB (5/5)

Web: HTML5 (5/5), CSS3 (4/5), Django (3/5), jQuery (2/5)

Software: Git (3/5), LaTex (3/5), Microsoft Excel (2/5), COMSOL(2/5)

Projects

Class Projects.

- Web-based mapping application of Berkeley written in Java
- o Pac-Man Al written in Python
- o Voice controlled toy car, including front end circuit design and back end control scheme and signal processing

Personal Projects.

- o Personal website, www.johntechols.com
- o Arcade Cabinet made from Raspberry Pi, see www.johntechols.com/projects for more detail