

<https://github.com/FionaCutler/>

Fiona R. Cutler  
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## University Education

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Computer Science Major/Chemistry Minor at the University of Utah

- GPA: 3.875
- Graduated Cum Laude

## Computer Science Elective Courses Taken

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|------------------------|---------------------|
| • Scientific Computing | • Network Security  |
| • Computer Networks    | • Computer Vision   |
| • Machine Learning     | • Data Mining       |
| • Visualization        | • Operating Systems |

## Significant Projects

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- A Java program that uses the Bag-of-Words model to extract features from images for machine learning algorithms. This involved k-mean clustering and use of JavaCV to create a dictionary of "visual words" to use as features.
- An implementation of a variant support vector machine designed for reducing Type I and Type II errors in situations where one class is rare.
- Worked in a group on a profiler visualization for the Stanford Legion Project, a "data-centric parallel programming system for writing portable high-performance programs targeted at distributed heterogeneous architectures."
- Worked in a group on a Swift application that used a QR code exchange for security.

## Work Experience

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Systems Engineer/Intern – Sorenson Genomics Laboratory – Summer 2014, 2015, and 2016,  
**Fall 2016-July 2017**

- Created a REST service in C# that functions as the back end for a WordPress site.
- Contributed code to two ASP.NET MVC 5 applications.
- Developed a Windows service written in C# that synchronizes genetic sample data between two MySQL databases, resolving any issues with database constraints.
- Developed a plugin for IntelliJ IDEA for a custom language for Lab Information Management Systems (LIMS) with features such as syntax highlighting, code completion, and structure view.

## Technical Skills

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- Experience in C#, Java, C++, C, Javascript, and Python.
- Experience with MySQL, ASP.NET, React, React Native, and D3.js.
- Version control with SVN, Mercurial, git, and Github.

## Honors and Achievements

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- National Merit Scholar
- University of Utah President's Scholarship (4 years full tuition and fees)

## Other

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- 8 years of Aikido, with some experience teaching children.