

# ERICA GOODWIN

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## EDUCATION

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### Harvey Mudd College

B.S. in CS/Math · GPA: 3.4 (*Dean's List*)

Claremont, CA

May 2019

## PROGRAMMING LANGUAGES

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JavaScript (React, JQuery) · Python · Ruby (Rails) · C · C++ · Java · Racket · GraphQL · MySQL · HTML · CSS

## RELEVANT COURSEWORK

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Programming Languages · Software Development · Algorithms · Data Structures and Program Development

## WORK EXPERIENCE

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### Honey

*Software Engineering Internship*

May 2018 - August 2018

- Assisted with the live migrations of multiple databases from MySQL to Cloud Spanner, implementing new GraphQL routes and endpoints adhering to existing data contracts with 100% test coverage
- Built the back end architecture to enable Honey Gold rewards to expand to international currencies with the appropriate data validation and error handling
- Built both the back end architecture (GraphQL, JavaScript) and the front end interface (React, Apollo Client) to enable Honey users to set their country in order to see more personalized store results and offers
- Fixed bugs independently discovered in activity logs
- Worked in a Node.js environment using the latest JavaScript features such as `async/await` for promises
- Participated in weekly team demos and retrospectives

## PROJECTS

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### Machine Learning for Cell Identification

*Harvey Mudd College CS Clinic + FluxErgy*

Sep 2018 - Present

- As a senior year capstone, pursuing a year-long project for an industry partner (FluxErgy)
- Developing a convolutional neural network to identify contents of low-resolution cell images
- Generating synthetic data to enhance limited training set
- The resulting algorithm will expand the capabilities of the sponsor's point-of-care medical diagnostic device

### Classroom Dashboard

*Software Development, Harvey Mudd College*

Spring 2018

- Created a classroom management platform for HMC CS courses using Ruby on Rails
- Wrote functionality to store customizable class and student data and facilitate randomized or semi-randomized student selection for question answering
- Followed Agile development methodologies and spent two weeks as project manager of 3 other developers

## LEADERSHIP

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### FEMunion Officer

*Harvey Mudd College*

Fall 2017- Present

- As a leader of Harvey Mudd's feminist organization, I work with other FEMunion leaders to host educational events covering feminist issues both on-campus and nationally/internationally

## INTERESTS

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Poetry, intersectional feminism, CS education, prison abolition