ERICA GOODWIN

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EDUCATION

Harvey Mudd College **Claremont, CA**
B.S. in CS/Math · GPA: 3.4 (*Dean's List*) May 2019

PROGRAMMING LANGUAGES

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

RELEVANT COURSEWORK

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

WORK EXPERIENCE

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

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

Teaching Instructor and Curriculum Developer
STEAM Coders Sep 2018 - Present
- After spending two years teaching computer science to local middle and high school students with STEAM Coders, I now teach other college students how to develop a STEAM Coders program at their school
- Work with new teachers to develop custom CS curriculum to suit their student demographic
- Train college students in effective and impactful teaching practices
- Work to expand the accessibility of CS education for middle and high school students in Southern California

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

Poetry, intersectional feminism, CS education, prison abolition