# BECKA GELETO

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## Education

**Macalester College**, St. Paul, MN.                                                     *B.A Expected May 2022*
  **Major**: Computer Science                                                         *Cumulative GPA*: 3.68/4.00
  **Honors & Awards**: Macalester Dean's List Fall 2018, Kofi Annan International Scholarship for Academic Excellence, Charles J. Turck Presidential Honor Scholarship Recipient
  **Relevant Coursework**: Software Design and Development, Computational Linear Algebra, Algorithm Design and Analysis, Object-Oriented Programming and Data Structures (Java), Discrete Mathematics, Multivariable Calculus 3

## RELEVANT EXPERIENCE

**Mathematics, Statistics and Computer Science Department,** *Macalester College*, St Paul, MN     *Sept 2019 – May 2020*
*Preceptor (Core Concepts of computer science* **[Sept – Dec 2019]***, Calculus 3* **[Jan-May 2020]***)*
- Assist students with any difficulties or questions they have about the day's lessons in class.
- Hold weekly Office hours where students can come and ask questions related to the course material.
- Assist the professor with grading HomeWorks and In-class activities.

**#EarlyBird**, *Twitter*, San Francisco, CA                                              *May 19 – May 24, 2018*
*Participant*
- One of 35 students selected from more 1200 applicants to participate in a five-day interactive program for first-year computer science students from historically underrepresented backgrounds at Twitter HQ.
- Collaborated with 4 other participants and a senior software engineer to design, implement and pitch a new feature to a panel of judges. *Second Place Winner of the #EarlyBird2019 New Feature Pitch Competition.*

**I-inspire Program**, Addis Ababa, Ethiopia                                              *Dec. 2016 – April 2017*
*Volunteer*
- *Tutored a class of 12, 5th-grade students in my neighborhood from low income households during the weekends to help improve their Math and English skills.*
- *Calibrated personalized curriculums for each student to match their specific strengths and weaknesses.*

## PROJECTS

**SwapApp (Group Project)**                                                               *Feb. 2020 – Present*
- Building a web-app for student to either exchange or sell used textbooks online.
- Currently under active development using the Django Python Web Framework.
- https://github.com/beckaberhanu/TextBookSwap

**Multilayer Neural Network (Independent)**                                               *Sept. 2019 – Dec. 2019*
- Built a basic machine learning algorithm from the ground up using java. Implemented as a multilayer perceptron with multiple configurable parameters such as network architecture, depth, learning rate and bias.
- Able to make predictions with up to 92% accuracy on the MNIST dataset of 60,000 handwritten digits at its current state.
- Includes a simple UI that keeps track of the model's performance at different points during training using the Java X-chart library.
- https://github.com/beckaberhanu/MachineLearning2

## EXTRA-CURRICULAR ACTIVITIES

**Macalester Computer Science Club (MacHack)**                                            **Nov 2018 - Present**
*Member*
- Routinely attend and actively participate in weekly club meetings.
- Contributor on the design and development of the MacHack student club website
- Designed and prototyped an affordable modular maze in preparation for the 2020 Princeton Micromouse Competition

**Tech Space**, *Ethio-Parents' Highschool*, Addis Ababa, Ethiopia                        *Jan. 2017 – May 2018*
*Co-Founder and Vice President*
- Designed a program called I-Cal, to solve all grade 11 level physics problems. Included a feature that predicts and animates the trajectory of a simple projectile for variable parameters such as speed, gravity etc.… using Microsoft Visual Studio.
- Scheduled, and Coordinated Tech Space's weekly student-member meetings.

## SKILLS

**Computer Skills**: Experienced with HTML, CSS, Java and Python, Intermediate with Flutter.
**Design**: Experienced with Adobe XD, Illustrator and Photoshop.
**Languages**: Native in Amharic, Fluent in English**.**