

# Elaine Chien

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## Education

University of California, Berkeley

Bachelor of Arts, Computer Science, May 2020

GPA: 3.61/4.0

Relevant Courses:

**Spring 2018:** Efficient Algorithms and Intractable Programs, Artificial Intelligence

**Past:** Data Structures, Discrete Mathematics and Probability Theory, Machine Structures, The Structure and Interpretation of Computer Programs, Linear Algebra and Differential Equations, Foundations of Data Science, Designing Information Devices and Systems

## Technical Skills

Python, Java, C, SQL (knowledge-of), IntelliJ, LaTeX, Git

## Projects

ShopNifty WebApp [Javascript] (CalHacks Hackathon)

October 2017

- Developed WebApp that uses computer vision and web scrapping to enable users to use inputted images to shop for similar items across multiple sites.
- Integrated Microsoft Azure Computer Vision API to analyze images
- Used Javascript to extract description data from resulting JSON and pass into web crawler to find items similar to original picture
- Filtered results collected from WebHose's web crawler API and parsed data for display

Hangman iOS App [Swift]

September 2017

- Used Swift and Xcode to develop a Hangman game

BearMaps [Java]

April 2017

- Used Java to write backend code for a web API that rasters images to display a map of a user's requested area around UC Berkeley
- Designed and implemented a quick search algorithm to route the shortest path from a start to end point on the map

Solar Vehicle Team (UC Berkeley) - Telemetry [Java]

September 2016 - March 2017

- Implemented a pausing and resuming data feed feature using Java
- Used Java Swing to integrate the feature into program's user interface

Seeing-eye robot for visually impaired (NAAVI) [Python]

July 2014 - August 2014

- Wrote Python code for the robot that guides the user
- Wired Arduino Uno to connect a programmed remote with an IR sensor for the user to communicate with robot
- Engineered communication between Arduino Uno and Scribbler 2 hardware

## Experience

Data Science Module Developer [Python]

October 2017 - present

- Using Python and Jupyter Notebook to develop course curriculum for professors at UC Berkeley that integrate different field with computing and statistics

UC Berkeley Academic Intern for CS61BL course

May 2017 - August 2017

- Taught Java and data structure concepts to 40 student lab section

NASA Research Intern with Dr. Yuri Griko

July 2015

NASA's Ames Research Center, Mountain View, CA

- Researched new cancer treatment drugs on the market
- Studied the effects of induced hibernation on snails to understand possibility of induced hibernation during space travel for humans

## Additional Information

Qualcomm Women's Collegiate Conference Participant

January 2017

- Award for Best Health Care Hack at mini hackathon