

# SOPHIA PUNG

## Software Engineer

**Address** Berkeley, CA, 94704

**Phone** 612-210-6460

**E-mail** sophiagracepung@gmail.com

I am a detail-oriented, organized and curious developer. I work at a fast pace to meet tight deadlines and am also an enthusiastic group member. I am currently independently learning about ML and networks (social and neural) and am also in pursuit of research experience regarding alternative proteins that significantly impact large populations.

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### PROFESSIONAL SKILLS

Analytical Thinking    Effective Communication  
Leadership              Fast Learner  
Collaboration          Ambitious

### TECHNICAL SKILLS

React                      Javascript, HTML, CSS  
Python                    Git  
postgreSQL & SQL      ExpressJS

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### EXPERIENCE

#### Set Game Project

October 2022

I wrote out the set logic and implemented it into a functional React app. I created a database with all the possible combinations of the set cards and used queries in the front-end to randomly generate a set of 9 cards on each render of the game. I then built in the game logic so that the user must select three cards that are a "set" which are then scored.

#### Eventonica

October 2022

Eventonica is an event management system which handles users, events, and has a search feature built in. I set up the database using postgresQL, SQL, and connected it to the nodeJS backend with a React frontend, and expressJS as a middleware.

#### Snake7

March 2022

Snake7 is a variation of snake built entirely in python using Turtle graphics. I implemented classes and learned how to pass data between the classes for the snake, the "computer snake", and the apples. The game consists of a "computer snake" (takes the fastest possible path from its current route to the apple, and a users snake (controlled by game player), and the snake who collects 7 apples first and doesn't run into the wall or itself wins.

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### EDUCATION

#### Techtonica

2022-present

Techtonica is a six months program, consisting of full-time, hands-on, project-based, collaborative software engineering learning with a focus on full-stack JavaScript. The last month is spent creating a final project and preparing to join one of Techtonica's partner companies for employment. I led the group as day lead, participated in weekly pair programming, and tracked my progress on a daily basis.

#### University of Minnesota

2020-2022

Attended for two years as a dual-enrollment student during high school. Coursework in: Political Philosophy, Programming for Biomedical Engineers, Cellular and Molecular Biology, two Biomedical Engineering seminars, Multivariable Calculus, General Chemistry II, Computer Science (Introduction to Python).

2018-2022

#### Robbinsdale Armstrong High School

Elected Student Body President: Assisted school administration and superintendent, ran on the platform to increase the voice of student minorities. Started a podcast. Re-wrote the student council charter and Student Body President application process to make them more transparent and equitable. Environmental Club Co-President: led recycling program in school and trash cleanups, weekly meetings. 2x Captain of the Nordic Ski Team.