# Arshia Malkani

### **EDUCATION**

# University of Illinois at Urbana-Champaign

School of Engineering
BS in Computer Science
Expected Grad. May 2019
Cum. GPA: 3.5

# University of California at Berkeley

Summer 2014 and 2015 Cum. GPA: 3.7

# SKILLS

Proficient Languages: C++, Python, Java, HTML, CSS Familiar Languages: Scheme, C Sharp, Javascript

# COURSEWORK

Intro to Cloud Computing
Text Information Systems
Computer Architecture
Data Structure
Discrete Mathematics
Software Design
Honors Intro to Computer Science
Structure and Interpretation of
Computer Programs

# **ACTIVITIES**

Association of Computing Machinery (ACM) SIG-IR (Information Retrieval) SIG-Pwny (Cyber Security) Women in Computing Machinery (WCS)

### CONTACT

arshiam2828@gmail.com , 510-579-5265 https://github.com/CodeBrew28

### **EXPERIENCE**

Yahoo: Fili Fall 2016

I worked on an open source project in which I built a grammar parsing tree for an API Filter.

### **PROJECTS**

#### **Unblock Me Game solver**

Summer 2015

https://github.com/CodeBrew28/blocks
I implemented a solver that uses heuristics to choose a DFS or a BFS algorithm to rearrange puzzle pieces to bring a block to the exit.
Solved all levels of difficulty in under 2 minutes.

#### **Gitlet: Version control system**

Summer 2015

https://github.com/CodeBrew28/gitlet I designed a version control system similar to github with commands such as commit, merge, and rebase to manage code repositories. Used a commit class and a graph structure that allows quick traversal using hash maps.

#### TopHat: Boilermake Hackathon 1st place

Winter 2016

https://github.com/warut-vijit/BoilerMake2k17.git I used nmap to gather IP addresses and TCP packets which are displayed as a 3D network in Virtual Reality. Used artificial intelligence agent to mimic a virus spreading so that the user has to shut down IP addresses to isolate the virus and protect the network.

NewsFeed Winter 2016

I implemented a website with Flask that scrapes CNN, NYT, BBC to create a database of articles, and then uses the TF-IDF algorithm to rank articles depending on the user's search.

#### **Distributed Music System**

Fall 2016

I implemented a website with Django that allows users to query songs, add songs to a shared queue, and recommend songs using collaborative filtering.

#### VandyHacks: Vesta Stock Market Visualization

Fall 2016

Implemented a website with Flask that allows users to query stocks and generates graphs to show the actual stock prices, sentiment analysis toward the stock, and the average industry stock prices.