

# Abdumijit Albert Dolkun

949-345-9072 | [AlbertDolkun@berkeley.edu](mailto:AlbertDolkun@berkeley.edu) | [linkedin.com/in/albertdolkun](https://www.linkedin.com/in/albertdolkun)

## EDUCATION

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**University of California, Berkeley**

Bachelor of Arts in Computer Science - Intended

Berkeley, CA

Aug. 2021 - Dec 2023

### **Relevant Coursework**

**CS 61A:** The Structure and Interpretation of Computer Programs (**Python, SQL, Scheme**), **CS 61B:** Data Structures (**Java**), **CS 70:** Discrete Math and Probability, **Data 8:** The Foundations of Data Science (**Python, SQL**), **CS 36:** C Programming (**C**), **CS 37:** C++ Programming (**C++**)

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, HTML/CSS, SQL, Regex, Scheme

**Developer Tools:** Git, Bootstrap, VS Code, IntelliJ

## HIGHLIGHTED PROJECTS & EXPERIENCE

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**Gitlet** / Java, Git, IntelliJ

April 2022

- Developed a version-control system that mimics the basic features of Git to manage collections of files.
- Constructed various classes and methods to implement the basic Git features to read/write contents into local/online files.
- Used different data structures such as BFS and TreeMap to make sure the running efficiency of the program, especially the *merge* function as it may go through all the ancestors and possibly read the content of each file in the history.

**OneCart** / HTML, CSS, Java Script, Git, VS Code

Nov. 2021 - Present

- Building a chrome extension where, one can store any item from different ecommerce platforms and check out in one place
- Researching options to create a bot that bypasses certain firewall to communicate with different websites and makes checkout possible from OneCart directly

**Enigma** / Java, Git, IntelliJ

Feb. 2022 - Mar. 2022

- Implemented a java program by writing tests, exceptions and implementing functions that simulates a WWII enigma machine
- Implemented a multilayer mismatching mechanism that encrypts or decrypts by going through various rotors permutating the given message

**Scheme Interpreter** / Python, Scheme, VS Code

November 2021

- Developed an interpreter for the Scheme language that takes in Scheme expressions and outputs the values
- Handles call expressions, primitive expressions, and special forms like *define*, *lambda*, *let*, etc. in total of three steps
- Reads the expression as a python data structure, and evaluates the expression by parsing, then prints out the final value

**Ants vs. SomeBees** / Python, VS Code

October 2021

- Built a tower defense game by using an OOP paradigm that is inspired by Plants Vs. Zombies with a similar mechanism
- Implemented different classes with various attributes to define the functions and conditions of each character in the game and kept track of game stats like time elapsed, character position, and usable resources

## ACTIVITIES

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**Founder** / Student Justice for Uyghur Justice

June 2020 - Present

- Founded the organization along with other students from Cal, UCI, USC to spread the voice for Uyghur people
- Grew from 4 people to about 65 members from all over the world including UK, France, Germany, etc. Now we are a sister org of FreeUyghurNow, and actively fighting for my Uyghur people and those who are suffering from injustice

**Vice President** / International Student Club

Sep. 2019 - June 2021

- Worked closely with other members to organize events to create opportunities for students to share their stories and increase the diversity of the community
- Lead the team to host a union event for over 200 attendees with Japanese and Indonesian student clubs