

# Vijayraj Tolnoorkar

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## EDUCATION

**San Francisco State University**, San Francisco, CA

Anticipated 12/2023

Bachelor of Science in Computer Science

**Ohlone Community College**, Fremont, CA

Transferred - 05/2021

Computer Science

## SKILLS

- **Programming:** C · C++ · Java · CUDA · Python · HTML/CSS/JavaScript · Dart · Swift · MIPS Assembly · R
- **Tools:** Bootstrap · Flutter · Handlebars · TensorFlow · MySQL · AWS · Git · GitHub · Node.js · JSON · React.js · Rest API · MySQL Workbench · Linux · VirtualBox · Latex · Microsoft 365 · Mac OS · Windows · Android · Raspberry Pi · Adobe Creative Cloud
- **IDE:** Visual Studio Code · Android Studio · XCode · IntelliJ · CLion · PyCharm · Jupyter Notebook · Apache NetBeans · Eclipse
- **Course Work:** Object Oriented Programming · Data Structures and Algorithms · Intro. to Web Development · Discrete Math · Software Development · Machine Structures · Artificial Intelligence · DBMS

## PROJECTS

### 2D Tank War Game

12/2022

- Developed in **Java**, a 2D multiplayer game is built using the **Java AWT**, **Sprite** and **Java Swing** which provides a set of classes for creating and managing graphical user interface (**GUI**) components such as the game window, buttons, panels etc.
- Integrated features like split screen, mini map, animations, power ups, breakable, and unbreakable walls in the game
- Implemented **HashMap**, **abstract classes**, **Lists**, and other data structures to call resources, manage basic performances, arrange, and utilize the data
- Created a **UML diagram** to visualize the various classes, interfaces, and interactions that are essentials to the game

### Web Application

12/2022

- Developed interactive web applications with **front-end** using **HTML/CSS/JavaScript**, **Handlebars**, **Bootstrap**, and **jQuery** frameworks and libraries.
- Built **back-end** using **JavaScript** and **Node.js**, creating server-side logic, handling database interactions, and providing **APIs**
- Utilized **frameworks** and libraries such as **Handlebars**, **Bootstrap**, and **jQuery** to enhance the user experience and ensure cross-browser compatibility, resulting in visually appealing and responsive applications.
- Integrated **SQL** databases using the **relational model**, including creating tables with appropriate **primary** and **foreign keys** to handle database interactions efficiently.

### Roll Dice App

05/2023

- Developed a roll dice app using **Flutter** and **Dart** with a simple **UI** that displays a dice and a button which can be used to generate a random number between one and six.
- Designed the app's UI using Cupertino and Material widgets provided by Flutter and Implemented the Dart programming language to write the app's logic and behavior

### The Bat and the Weasel Animation

10/2020

- Developed a 2D animation project in **C++**, featuring a bat and a weasel in a forest environment.
- Utilized **object-oriented programming** principles, designed characters using **Cairo Graphic Library** and the **SFML library** to create smooth animation with character movement, collision detection, and sound effects.

## EXPERIENCE

**Underwriter's Laboratories**, Fremont, CA

06/2022- 08/2022

Radio Frequencies Engineer Intern – Validation and Development Team

- Utilized **Python scripts** and libraries such as **NumPy** and **SciPy** to analyze RF data, visualize results, and **automate testing** procedures, improving efficiency and accuracy of **RF engineering** workflows.
- Evaluated test performance and sample operation of wireless devices to ensure regulatory standards are met
- Developed expertise in wireless test equipment such as EMI receivers, Spectrum Analyzers, Antennas, RF filters, etc.

**Excel Test Prep**, Fremont, CA

06/2019- 08/2019

Teacher Assistant

- Assisted teachers and staff by setting up SAT tests and student activities
- Collaborated with teachers to grade SAT tests and give feedback to students

## ASSOCIATIONS/AFILIATIONS

- Badminton Club at San Francisco State University, Vice President 11/2021- Present
- Dot-Slash Computer Science Club, Vice President 01/2021- 05/2021