

Douglas Rank

Douglas.rankjr@gmail.com • (310) 991-5037 • <https://rankdjr.github.io/>

EDUCATION

California State University, Bakersfield | Bachelor of Science in Computer Science

Expected June 2023

Relevant Coursework: Programming Fundamentals, Data Structures and Algorithms,
Algorithm Analysis, Software Engineering

SKILLS

- **Programming Languages:** C++, Java, Python, HTML, Assembly, SQL
- **Developer Tools:** Git, Github

PROJECTS

“No Cutting in Line!” A Simple Line Intersection Game using OpenGL and C++

March 2022

Tech Used: C++, OpenGL

- Created a desktop application game using C++ and OpenGL
- Used X11 to setup window environment and track mouse movement on the screen
- Used OpenGL to draw lines, 2D explosions, and a trailing line that tracks the mouse cursor as it moves
- Game logic includes a start screen, collision detection, scoring, and a timer which ends the game after a certain time limit

“RoadRunners Casino” A Blackjack Application using Android Studio

Dec. 2020

Tech Used: Java, Android Studio, Git

- Developed and designed a blackjack application using Android Studio
- Utilized textures for background images, card faces, and menu buttons to ensure a pleasant user experience
- Implemented various Android components to allow user betting, drawing of cards, and other basic blackjack functions
- Designed class structure of basic card functionality allowing other group members to implement functions in separate games such as poker
- Designed manual test cases to force edge case scenarios and ensure the application functioned as intended
- Ensured that the application was backwards compatible to previous versions of Android

Task Automation and Data Mining using Visual Basic

Feb. 2019

Tech Used: Visual Basic, Automation, Microsoft Excel, Data Mining

- Wrote a custom macro in Visual Basic to automatically retrieve datasets from multiple data sources by automating website actions
- Automated the import of data into Microsoft Excel, scrubbed data, and parsed relevant information into separate files for company records
- Created master file using Power BI to aggregate reports for weekly accounts receivable tasks

CLUBS

CSUB Software Engineering Club

Jan. 2022