

Douglas Rank

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EDUCATION

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

Expected May 2023

SKILLS

- **Programming Languages:** C++, SQL, Python, Java, HTML/CSS, Javascript, Assembly
- **Developer Tools:** Git, Github, AWS Suite, Atlassian Suite, Microsoft SQL Server, OracleDB

WORK HISTORY

Intern Automation Specialist

October 2022 - Present

California Resources Corporation | Bakersfield, CA

Tech Used: Python, Powershell, SQL Server, OracleDB, PowerBI

- Operated as project lead in redesigning a manual Excel based report into an automated virtual form interfaced to dynamically update a database of field devices using Microsoft SQL Server Management Studio, GoCanvas, and PowerBI
- Used PowerShell scripts to verify and clean telemetry data from STP file servers before importing into a SQL Server Database.
- Created various triggers, stored procedures, and custom functions to parse, clean, and update data after automated file imports were processed.
- Worked with various teams to gather project requirements and set deadlines for deliverables
- Performed tasks within PowerBI, Microsoft SQL Server Management Studio, and various other tools on an as-needed basis

Intern Devops Engineer

May 2022 - August 2022

Columbia Sportswear Company | Portland, OR

Tech Used: NewRelic, NRQL, AWS Cloud Suite, Atlassian Suite

- Tracked Epic, User Stories, and Minimum Viable Product requirements through Jira ticketing and storyboarding
- Ensured the scope of the project was maintained through weekly check-ins and end-user meetings
- Used SQL queries to pull data into a custom dashboard for analytics relating to page load metrics across various sprint timings
- Researched best practices for core web development vitals and used benchmark metrics to setup slack integration alerting and automated jira ticketing

PROJECTS

“CaliWeather” A Cross-Platform California, Meteorology Application

May 2023

Tech Used: Flutter, SQLite, OpenWeather API

- Utilizes OpenWeather API to fetch current weather information including an 8-day forecast
- Contains radar imaging data with optimized local image-tile caching for improved performance, with playback functionality ranging up to 2 hours
- Stores current and historical weather data in local, SQLite database to display trended graphs for various metrics
- Parses JSON with null safe logic to provide a list of localized alerts for extreme weather conditions when applicable
- Allows users create/update user accounts using local device storage to ensure persistence of login, profile, and settings information
- Includes options for users to customize various UI settings/notifications

“Orc Swarm” A 2-D Tower Defense Game

March 2022

Tech Used: C++, OpenGL, X11

- Uses X11 to setup window environment and track mouse movement on the screen
- Uses OpenGL to render maps, animated sprites, towers, and projectiles
- Game logic includes a start screen, collision detection, player scoring and funds management, wave management, and tower creation/removal/upgrades

“RoadRunners Casino” A Blackjack, Casino Application

December 2020

Tech Used: Java, Android Studio, Git

- 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