

Dylan Rychlik

I am a young, hardworking, and tech-savvy individual. I have two years of Software Quality Assurance experience in manual and automatic Software Testing. I know various programming languages, frameworks, and Software Service apps to be a qualified candidate for a Software QA Engineer or Jr Software Developer role

LinkedIn: [Dylan Rychlik | LinkedIn](#)

Github: [dylanrychlik \(github.com\)](#)

Portfolio: [My Portfolio](#)

[\(portfolio-dylan-rychlik.onrender.com\)](#)

Technical Competencies

- Kotlin
- Javascript/HTML/CSS
- Java
- Python
- Android/Android Studio
- Git
- MySQL
- React/Nodejs
- QA Touch/Test cases
- Android/Android Studio
- UIAutomator
- WindowsCMD/shell/.bat/
- JavaFX/FXML
- EJS

Education

Bachelor of Science in Computer Science at Keene State College

- 3.25 cumulative GPA and 3.4 Computer Science GPA
- Went out of my way to take academically challenging courses and often received high grades
- Became a class mentor for one of the most difficult classes in the Computer Science curriculum
- Worked as a part-time Dishwasher while taking difficult classes for my major
- Did several different side classes in other subjects instead of a minor to be more educated in various topics such as history, film, social justice, precalculus, nutrition, management, and other topics

Keene State College Software Engineering Research Program

- Chosen by the professor to participate in a Software Engineering Research program in the form of a paid summer internship
- Helped develop the backend of an expert system, the Cognitive Leadership Analysis System (CLAS), which facilitates the evaluation of employees or candidates of their leadership skills for any given organization
- Introduced to git version control
- Backend connected to a MySQL Database with over 30 tables in a 5th normal form relational database
- After the summer, I made a help guide system for the program in Javafx connected via FXML
- Presented professional documentation and demo of the project at Keene State College academic excellence conference and secured an "A" grade in the class

Personal Project Highlights

Kotlin and Android Sentence Builder app

Apk found on portfolio website:

- Sentence builder/sound board app to help nonverbal autistic children communicate
- Preloads a general list of images representing the word dictionary for the user to select.
- If a user taps on the image, it sounds out the word
- If a user clicks on the add button function, you can dynamically add an image to the word list, grant permission for the user to record the voice and add the image to the image word list
- Once the image is added, the user can see new image added in the dictionary
- Creates a separate activity to represent a Wizard dialog, to select the words from a spinner and create the desired sentence in a separate fragment, and word view list

React and NodeJS Standard login validation system

Link: [React App \(http://login-validation-rychlik.onrender.com\)](http://login-validation-rychlik.onrender.com)

- Connects a react frontend with a Nodejs backend connected to a remote mySQL instance of an accounts table
- Allows user to register account and uses nodemailer to send to the users email to verify their account
- Once registered, the user can login to a simple landing page
- User can also reset their password with a separate email validation to reset and login with new password

React Simple budget tracker app

Link: [React App \(budget-tracker-rychlik.onrender.com\)](http://budget-tracker-rychlik.onrender.com)

- Made a webpage that allows user to select a budget, list out their expenses and then it calculates the balance
- Uses images and colors to represent, the balance, expenses, and income
- Lists out the income and expenses in an array, side by side in the center of the page

Java and Android using SQLite Railroad Database app:

Apk found on portfolio website:

- Has a 6 table Database for a simple railroad and an activity interface for each table using XML Table view is activities by an drop down menu
- Has an Android UI that connect to the Data and the user can select from the table spinner to view each table.
- Has several SQLite operations that the user can choose from.
- Operations include, create, read, delete, update, sum, count, avg, join, inner join, left join, having, in, and group by.
- App shows a toast informing user of database changes

JavaFx / Text-Based Adventure Game:

Github: [dylanrychlik/Taladone_an_island_of_adventure](https://github.com/dylanrychlik/Taladone_an_island_of_adventure)

- Game has a simple JavaFX interface using FXML controllers with an open-world town consisting of multiple sub-locations.
- Players can activate quests in different maps, interact with dozens of characters, and initiate side quests.
- Game has 5 main quests in different parts of map and take about 25 minutes to play
- Final battle has a final boss to win the game
- The game uses a queue of strings for enemies, an ArrayList for the GUI minimap, and linked lists for store inventory items.
- Game has about two hours of gameplay and a downloadable application from the website
- Game was originally all in a JOptionpane dialogue, but is now in JavaFX
- Game became one of my senior capstone projects for my Advanced Software Development class worked on all semester while balancing classes and Software Engineering research
- The game improved my JavaFX skills and secured me an "A" grade in the class

References

Available upon request.