

Joshua Kim

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EDUCATION

University of Florida

*Bachelor of Arts, Major in Computer Science/Minor in Math
College of Liberal Arts and Sciences*

Gainesville, Florida

May 2024

Cumulative GPA: 3.84/4.00

EXPERIENCE

Software Engineering Intern | Infotech - Ruby on Rails, HTML, CSS, SQL, Docker

May 2023-August 2023

- ❑ Implemented an additional attribute to searching documents, enabling users to identify documents with export errors, significantly improving user experience and data accuracy
- ❑ Changed the document text input attribute to rich text, added the rich text attribute to the documents database, and successfully migrated over **7 million contract descriptions** to display rich text, enhancing readability and user interaction
- ❑ Updated the **RSpec** and **Jasmine** test suites, incorporating unit tests for each newly developed feature, ensuring robust and reliable code in line with best practices in test-driven development
- ❑ Identified and resolved a critical production error in the database involving incorrect timestamp metadata, employing diagnostic techniques such as error code analysis and SQL queries to isolate affected contracts

Algorithm Abstraction and Design Teachers Assistant | University of Florida - C++

January 2023-May 2023

- ❑ Lectured a custom lesson plan covering algorithm design concepts such as graph, greedy, divide and conquer, and dynamic programming algorithms to over **100 students** and answered students' and textbook questions
- ❑ Constructed a rubric for algorithm design questions and graded **300+ free response answers** based on accuracy, time complexity, and space complexity
- ❑ Graded **70+ projects** written in **C++/Java** which implemented stock profit maximizing algorithms to test understanding and implementation of dynamic programming
- ❑ Collaborated with the Professor to create and modify test questions and projects to assess comprehension
- ❑ Wrote a **C++** program to generate examples for edge cases where the student's proposed solution gave a different output from the correct algorithm so students could empirically learn how their answer produced divergent results

PROJECTS

GenerateCoverImage - Python, OpenAI API, CustomTkinter

December 2023-January 2024

- ❑ Constructed a program to produce Dalle-3 generated images based on the lyrics of a user inputted song
- ❑ Made an API call to **AZlyrics API** based on the input to extract lyrics and send a request to the **OpenAI API** with the lyrics as part of the prompt to generate an image
- ❑ Made an interface with **CustomTkinter** to accept user input for song title and author

AboutMe - JavaScript, HTML, CSS, AWS Amplify, AWS Route 53, AWS S3

January 2024

- ❑ Created a full-stack personal website utilizing **HTML/CSS** for the frontend and **Javascript** for the backend
- ❑ Originally hosted using **AWS Amplify** to deploy static resources while allowing continuous development
- ❑ Created an **Amazon S3** bucket to host files and route traffic to custom domain with **Amazon Route 53**

Members Only - Ruby, Ruby on Rails, PostgreSQL, HTML

June 2023-July 2023

- ❑ Implemented a Model-View-Controller (MVC) architecture in **Ruby on Rails** to create a web application where users can join groups and create/read posts in groups they belong to
- ❑ Integrated user account management with authentication/authorization using libraries **CanCanCan** and **Devise**
- ❑ Processed entity relations and database storage with **ActiveRecord** utilizing **PostgreSQL**

EdMedley - Python, Pygame, Jira, CircleCI

February 2022-May 2022

- ❑ Programmed an interactive, educational game in **Python** using the **Pygame** library to create visual assets
- ❑ Utilized serialization for save files with **JSON** to keep track of high scores and persist information
- ❑ Wrote unit-test cases and integrated automatic testing with **CircleCI** through **GitHub actions**

TECHNICAL SKILLS

Languages: C++, Python, Java, SQL, JavaScript, Ruby, Ruby on Rails, HTML, CSS

Frameworks/Tools: Agile Development, Jira, Git, Docker, RESTful API Design, Test Driven Development, Amazon Web Services