Raed Ali

FastTrack

Recent Grad was an incredible addition to our May 2024 cohort. He displayed a lot of positive energy and adjusted quickly to the pace and process of the program. He almost always has a smile on his face, especially when assisting other cohort members or helping a peer understand a difficult concept.

- Charles, Career Readiness Director

Technical Skill

- Excels in understanding of RESTful Web Services.
- Initiates peer reviews through GitHub pull requests.
- Deep appreciation for structured architecture.

Teamwork

- Creates collaborative opportunities by being open to new ideas.
- Flexible and responsive to teammates needs and schedules.
- Takes the lead when necessary and establishes project plans.

Communication

- Proactively pulls others into the conversation.
- Navigates multi-platform communication without losing context.
- Asks great questions. architecture.

Ask me about

- My transition from academics to development.
- How I shifted my perspective to become a better leader.
- My desire to better understand myself and the world around me. architecture.

Raed Ali

FastTrack

Raed is a hard-working Full Stack Software Developer with a bachelor's in computer science from The University of Texas at Arlington. He is a team player who has collaborated in many groups. He also demonstrated his ability to work with others and his drive to help others when he was a programming tutor for 2 semesters at his university. In doing so, he demonstrated his problem-solving skills when collaborating with others. He was able to graduate with honors and when he presented his senior project he was able to catch the attention of the deans from the creativity of his project.

Month 2024 Cohort

Successfully completed our eight-week software development program that teaches full-stack web application development with a focus on holistic training and professional development.

Completed three large group projects during the program:

- Project #1 • Project #2
- Project #3

Follow link for an in-depth explanation of coursework and projects completed:
www.linkweprovidetoclient.com

Why We Chose Recent

When I first spoke to Recent Grad, I could tell he was hungry and smart. He impressed me with his ability to communicate his diverse experience as a teacher in foreign countries while also giving me clear indications why he wanted to transition to a software dev career. He maintained that same level of communication and responsiveness throughout our in-depth screening process.

- Carrie, Senior Recruiter

Programming

- Java   • JDBC
- JavaScript   • Jackson
- Angular   • JPA
- TypeScript   • jQuery
- HTML5   • Node
- CSS3   • Webpack
- SQL   • Babel
- Spring   • Maven
- Spring Boot • npm

- C

Software

- Eclipse   • GitHub
- VS Code   • cmder
- Git   • pgAdmin

Databases

- PostgreSQL

- Sqlite

Portfolio www.portfolio

ADDITIONAL EXPERIENCE

UTA Academic Success Center – Arlington, TX   **08/22 – 05/23**
Tutor

- *Strengthened students' understanding of foundational programming concepts and more intermediate skills like data structures and algorithms by working out assignments with other undergraduate students in their courses utilizing C*
- *Demonstrated how to properly research information related to the coding assignment to help students become more independent learners by showing them good resources to help them with their assignments*
- *Taught students useful ways to systematically debug and understand their code by showing them how I debug their code with the GDB debugger or with the VS debugger*

Database Systems – Remote   **01/22 – 05/22**
Foundational database design with SQLite

Algorithms & Data Structures – Remote   **06/21 – 08/21**
Intermediate algorithmic programming for Software Engineering

Unit Testing – Remote   **06/23 – 07/23**
Documented test cases for programs and wrote out those test cases with JUnit

Facebook Honeypot Project   **08/23 – 05/24**
- Helped Combat the scammer problem on Facebook by coordinating with a team to make an automated Facebook account made to be a HoneyPot for scammers
- *Designed an automated Facebook account to replicate the actions that any normal user would perform by using the Selenium Python library/tool to make posts, reply to any direct messages, and friend requests*
- *Coded the backend to store the chatlogs by web scraping each page for the direct messages that occur and saving these messages on a text file corresponding to each account*

- *Modified Openai to act like a vulnerable widow using prompt engineering and some machine learning on chatlogs of how scammers interact with the elderly*
- *Utilized Openai to detect scammers by parsing the chatlogs into Openai and using prompt engineering to make Openai judge if that person is a scammer, but also to generate an appropriate response*
- *Collaborated with my team to display the scammers detected through my code on our website by using Github for collaboration and version control, Firebase for storing the detected scammers, and JavaScript to fetch this list of scammers.*

Environment: Python, Selenium, LLMs/Openai, Firebase, Github, HTML, JavaScript, CSS, Flask

Phonebook Project   04/24 – 05/24

- Improved *the security of a phonebook program that originally had many vulnerabilities by validating user input with regular expressions and proper security practices*
- *Tested the endpoints of this restful application running in a docker container by using unit tests I designed to test for any vulnerabilities*
- *Secured the program by adding username/password authentication system using bcrypt and storing the encrypted passwords for each user on a database*
- *Developed logging functionality to ensure accountability and non-repudiation of each user by logging each endpoint they call and the time/date of when they login/logout*
- *Maintained the system by fixing any vulnerabilities discovered from the unit tests*

Environment: Python, SQLite, Docker, REST APIs

Memory Allocator Project   03/22 -03/22

- *Recreated the functionality of the malloc() function (malloc is a function used to dynamically allocate a block of memory on a system in C) by using pointers, linked lists, and functions I made to manage and keep track of the blocks of memory*
- *Evaluated various sorting algorithms by writing 4 different variants of malloc() using each sorting algorithm and using unit tests to measure the performance of each*
- *Created a secure sandbox to isolate applications and system processes by utilizing a Docker container to make an environment to run the code*

Environment: C, Docker

File System Project   04/22-04/22

- *Developed a file management system by designing and implementing a file system that allows a user to store, retrieve, list, and save files*

- *Abstracted user input through a command line interface to allow easy management and navigation of the file system*
- *Created an optimized file storage and retrieval system through the use of pointers and structs to structure the data efficiently*

Environment: C, Docker

The Tomorrow Project   12/23-01/24
- *Developed a boxing game through the use of C# and Unity*
- Implemented the game mechanics through the C# scripts which contain the logic for the boxing mechanics
- Visualized the boxing experience by creating the sprites for the game assets and animations with those assets using Unity and additional scripts if needed
- Improved user clarity by designing the UI to display the statistics of the game and of both boxers

Environment: C#, Unity

Horse Betting Project   05/21-05/21
- Coordinated *with a team to make a game where you bet on a horse that you think will win the race and then watch the horses race each other. We implemented the game through Java and a GUI using the Swing library*
- *Acquired user input by designing an intuitive UI and menus to navigate through t to get the user's input on how much they are betting and what horse they think will win*
- *Visualized the movement of the horses by creating a function to make the horses move on the screen according to their randomly rolled speed value and updating their coordinates according to their speed and how much time passed.*

Environment: Java, Swing

EDUCATION

University of Texas – Arlington, TX   *06/18 –08/24*
Bachelor of Science: Computer Science(GPA: 3.57/4.00)

LANGUAGES
English (Native); Bengali(conversational)