Anisha Ranjan

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Education

University of Central Florida – *Orlando, FL* May 2024
Bachelor of Science in Computer Science
GPA: 3.7
Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Computer Logic and Organization, Programming Languages, Database Management Systems, Systems Software, Algorithms for Machine Learning, Artificial Intelligence

Technical Skills

Languages: Java, C, JavaScript, C#, C++, Python, HTML, CSS, TypeScript, Haskell
Technologies: ASP .NET, React, React Native, Flutter, Node.js, Express.js, jQuery, Selenium, Jasmine
Tools: Git, VS, VS Code, MongoDB, SQL Server Management Studio, Heroku, Unity, Expo Go, Postman

Experience

Full Stack Software Engineering Intern – *Orlando, FL* November 2022 – Present
Lockheed Martin

- Constructed user-friendly design improvements for data manager web applications using C# and ASP .NET such as data table manipulation, reorganizing table layouts, populating data rows through generating API requests, routing to different pages, incorporating tooltips, and more to enhance the UI/UX while writing automated tests in Selenium and Python to test functionality
- Optimized database entities by altering the schema to remove irrelevant attributes, eliminating NULL values, and writing SQL queries in SSMS to improve the efficiency of data retrieval, which led to reducing the query execution time by 8 seconds
- Debugged and augmented existing code by correcting functions and leveraging AJAX and HTTP requests to refine API with jQuery on the client-side and C# on the server-side, improving the page loading speed by 15%
- Architected a 3-tier web application plan to strengthen the search result efficiency for training courses by implementing Bayesian ranking and filtering options for a department of 1,900 employees

Undergraduate Research Assistant – *Orlando, FL* January 2022 – August 2022
Socio-Technical Interaction Research (STIR) Lab at UCF

- Collected and analyzed qualitative and quantitative data pertaining to Android mobile privacy and security to evaluate the effectiveness of app features through interviewing 25 participants and using Dedoose and Excel while contributing to 22% of the overall qualitative data analysis for Wilcoxon Rank-Sum Tests
- Maintained the lab website to display an up-to-date repository of recently published research papers using HTML, CSS, and PHP

Communications Director – *Orlando, FL* December 2021 – Present
Knight Hacks

- Increased the technical proficiency amongst students by publishing 120+ hours of videos to make workshops accessible through online platforms, elevating the total user engagement across all platforms by 43%
- Helped students prepare for the Computer Science Foundation Exam by creating a workshop series that covered previous exam questions, practice exercises, and reviewed data structures and algorithms, accumulating 3.6K+ views
- Promoted University of Central Florida's hackathon to students across Florida through social media platforms, gaining 1.1K+ registrations and 700+ attendees

Projects

KnightAssist – *Orlando, FL* September 2023 – Present
Project Manager

- Led the design and implementation of a Volunteering Service Platform web and mobile application with a team of 5 students using the MERN stack to streamlined the volunteer processes for students and organizations to eliminate tedious administrative tasks
- Devised user interfaces for student, organization, and admin users through performing usability testing with 4 on-campus organizations and UCF Faculty, resulting in various changes for an enhanced and accessible user experience

Course Schedule Builder – *Orlando, FL* March 2023 – May 2023
Frontend

- Consulted with a team of 7 students to deploy a MERN stack web and mobile application through Heroku and Expo Go to effectively assist students with registering for classes using a topological sorting algorithm for DAG to account for prerequisites
- Developed the user interface for the web application using React and created a secure authentication and authorization by integrating JWT