**VIVIAN D’SOUZA**

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**EDUCATION**

**University of South Carolina** —Columbia, SC **Expected May 2024**

**Bachelor of Science *in Computer Science*** GPA: 3.96

Honors College

**COURSEWORK**

Computer Networking | Data Structures and Algorithms | Information Security Principles | Introduction to Cloud Computing **|** Introduction to Web Development | Operating Systems | Software Engineering | Windows Programming

**WORK EXPERIENCE**

**University of South Carolina** – Department of Computer Science *Columbia, SC*

*Undergraduate Teaching Assistant*  **Aug 2023 – Dec 2023**

* Hosted the lab session for CSCE 145, for around 30 students, answering their questions on homework and assignments
* Taught quick lessons in beginning programming concepts using Java, at the start of each session

**Ford Motor Company** *Remote*

*Software Engineering Intern*  **May 2023 – Jul 2023**

* Developed a prototype for an app that provides a personalized driving experience to customers
* Utilized React to provide a GUI that gamified the user experience and provided a platform for early user testing
* Integrated vehicle data into the app using Google Cloud Platform to provide real-time updates on the user’s vehicle
* Performed unit testing on back-end and front-end functionality using JUnit

**Swampfox Technologies** *Columbia, SC* *Software Engineering Intern*  **Jun 2022 – Aug 2022**

* Built a diagnostic application for two customer experience products, reducing time spent debugging common issues
* Coded six Java back-end applications to test network connectivity, place calls in VXML/CCXML format, and execute license checks
* Designed and implemented a web interface utilizing ReactJS and RESTful API, allowing users to execute checks and aggregate useful error messages from three sources

**University of South Carolina** – Language Conflict Project *Columbia, SC*

*Undergraduate Research Assistant*  **Mar 2021 – Jun 2022**

* Created a Python program to calculate a measure of lexical similarity between four languages
* Employed Pandas and Natural Language Toolkit libraries to perform webscraping, text manipulation, and analysis on large data repositories and news articles

**PROJECTS**

***Lyraquist: Language Learning Through Music* React, Java, Firebase**

* As part of senior thesis project, developing an Android app for users to practice language learning through music and lyrics
* Designed a Firebase Realtime Database for data persistence within app
* Integrated Spotify Android SDK and Spotify Web API within app to obtain song playback, track information, and search functionality

**SKILLS & TOOLS**

Java | React | JavaScript | C# | Python | HTML/CSS | C++ | Azure Fundamentals | UNIX/Linux | Git | Agile

Spanish (B1) | German (A1)