Chaitanya (Chai) Muragundi

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Objective

Seeking a position this fall to develop my teamwork and analytical skills in a professional environment

Education

2019 to 2023
North Carolina State University, Raleigh, NC
Bachelor of Science, Computer Science   GPA 3.2

Experience/Projects

June 2023 to Current
Developing a Minecraft Mod
- Using the Fabric API to develop a custom "mod" to the game Minecraft
- Designing and researching methods of navigating Minecraft's existing codebase and modifying as necessary
- Implementing logic to handle custom game functionalities, along with custom models and sprites for in-game objects

January to May 2023
Senior Design Project - LexisNexis Automated Refactoring
- Worked with a team in an agile environment to plan, design, implement, and test a refactoring library built with C# and Roslyn on a .NET platform
- Communicated with the sponsor, LexisNexis, to understand the requirements and scope of the project, and keep them updated throughout the process
- Leveraged Roslyn to handle and modify C# codebases to ensure improper coding patterns were updated throughout

March to May 2023
Covid-19 Dataset Analysis
- Using Python and JupiterNotebook, analyzed a dataset of medical information for patients with COVID-19 provided by the Mexican Government in 2020
- Performed data preprocessing to ensure clean values, then used Train-Test-Split to organize the data into usable groups, with undersampled data for training
- Used Logistic Regression to estimate the association between independent variables with a primarily binary outcome regarding the question *"Is a given patient at risk of dying of COVID-19?"*

January to May 2023
Web Application for Car Meets
- Formed a group with peers to create a web application where users can create and sign up for a car meet
- Designed wireframes and iteratively worked to create the backend and frontend with JavaScript, Bootstrap, and REACT, with a database to support it
- Hosted application using Docker, with offline functionality and dynamic pages

September to November 2022
Mock Auto Service Database System
- I designed entities, relations, dependencies, constraints, and diagrams necessary to plan out a database management system for a hypothetical auto repair service as part of a team
- Created the SQL database from scratch using a Java environment in Eclipse

March to May 2022
iTrust2 Healthcare System
- Worked with a team to add updates to a pre-existing "mock" healthcare application
- Developed both backend and frontend additions to ensure a cohesive flow, using HTML/JavaScript for the frontend and Java for the backend
- Mediated conflicts in teams and ensured workflows were submitted on time

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Relevant Courses

Senior Design Project

Datastructures and Algorithms

Automated Learning and Data Analysis

Operating Systems

Web-Based Client-Server Computing

C / Software Tools

IoT Systems

Ethics in Computing

Intro to Artificial Intelligence

Computer Networks

Database Management Systems

Probability and Statistics

Communication in Engineering

Automata, Grammar, and Computability

Software Engineering

Comp. Organization and Assembly

Skills

Personal: Teamwork, Documentation, Communication, Leadership
Languages: Java, JavaScript, Python, C, C#, SQL, x86 Assembly Language, RegEx
Technology: Jenkins, GitHub, Hibernate, AngularJS, REST API, SQL Developer, MySQL, .NET, Roslyn, Docker, Eclipse, Visual Studio, IntelliJ