Blake Lucas

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Education & Skills

APPALACHIAN STATE UNIVERSITY
· B.S. Computer Science – Data Science Emphasis | GPA: **3.29/4.0** | May 2023
· Data Science Certification – Appalachian State University

SKILLS
· **Languages:** Java, C/C++, Python, HTML, JavaScript/TypeScript, CSS, SQL, R, Swift
· **Technologies:** MySQL, Angular, JUnit
· **Developer Tools:** Git, VSCode, PyCharm, Eclipse, XCode, GDB, Make
· **Libraries:** NumPy, Sci-kit Learn, MatPlotLib, Pandas, Spotipy, SwiftUI, AudioKit

RELEVANT ACADEMIC COURSES
· Software Engineering
· Computer Systems I & II
· Data Structures
· Applied Machine Learning
· Data Acquisition & Visualization
· Databases
· Technical Writing
· Calculus & Linear Algebra

Relevant Projects

Y-86 PIPELINE SIMULATOR (C/C++, GDB DEBUGGER, GIT)   SPRING 2022
· Developed x86 simulator designed to execute real programs with reduced instruction sets
· Accurately simulates pipelined architecture, instruction bubbling & memory interactivity
· Project made from scratch between two collaborators using C++ and Git

iOS MUSIC PROCESSING APPLICATION (SWIFT/SWIFTUI, XCODE, AUDIOKIT)   SPRING 2023
· Developed an iOS application for lightweight, on-the-go music composition using Swift, SwiftUI, & AudioKit
· Implemented entire signal processing chain from hardware input to application output using AudioKit nodes and Apple Frameworks
· Utilized Git to collaborate on tasks asynchronously

SPOTIFY LIKED SONGS SORTER (PYTHON, SCI-KIT LEARN, SPOTIPY)   SPRING 2023
· Python application designed to sort a Spotify user's Liked Songs
· Dynamically creates and modifies a Spotify users' playlists using the Spotipy library for API access
· Utilizes Sci-Kit Learn machine learning techniques for song feature analysis

Work Experience

JENNY'S PROJECTS FLORAL DESIGN | *EVENT STAFF*   2017 - PRESENT
· Assisted in setup and teardown of weddings and special events

OUR DAILY BREAD | *KITCHEN STAFF*   MARCH 2022 – JANUARY 2023
· Collaborated with kitchen staff to prepare customers' orders quickly and accurately, trained new employees

SUNNYSIDE CHRISTMAS TREE FARM (SEASONAL) | *ON SITE MANAGER*   NOVEMBER 2017 - DECEMBER 2022
· Greeted customers & responded to customer inquiries, managed & maintained inventory, trained new employees

Leadership

SIGMA NU FRATERNITY | *RECRUITMENT CHAIRMAN*   AUGUST 2020 - SEPTEMBER 2021
· 100% acceptance on all 31 bids extended in 3rd term – first time ever for Chapter
· Successfully recruited 44 new members over 3 semesters
· Managed ~90 people at each event
· Planned & coordinated 15 recruitment events