

MICHAEL LIAM SINCLAIR

Full-stack Software Developer

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PROJECTS

Skybin - Cloud Storage Application

Backend Developer

- Technologies Used: React, Spring Boot, MySQL, JWT Authentication, REST API
- Developed a cloud storage application enabling users to upload, download, and manage files in a personal directory, enhancing data accessibility and organization
- Implemented user authentication and file management features to ensure secure and efficient data handling
- Designed and implemented a local MySQL relational database to securely store and manage user information

Pump Pals - Fitness Social Media Application

Full-stack Developer

- Technologies Used: React, Spring Boot, MongoDB, Axios, REST API
- Created a social media platform for fitness enthusiasts to share workouts and progress
- Integrated social media functionalities with fitness tracking to encourage community engagement and user retention
- Employed MongoDB for scalable and efficient data storage of user profiles, connections, posts, and fitness activities

Object Detection Robot

Developer

- Technologies Used: Arduino IDE, C++, Python, OpenCV
- Engineered a robotic arm capable of object detection via colors, demonstrating proficiency in hardware-software integration
- Implemented controller input functionality for manual operation, enhancing the robot's versatility and user interaction
- Programmed the robot for autonomous color detection and object manipulation, showcasing advanced programming skills in C++ and Python

Distributed and Network Programming Projects

Developer

- Technologies Used: Java, Swing, RMI

CAREER OBJECTIVE

Aspiring software engineer with a dual major in Computer Science and Cybersecurity from USC Upstate, passionate about innovative development and teamwork. Eager for an internship in Spring 2024 or full-time opportunities post-graduation in April 2024, with a commitment to continuous learning and creativity in technology.

EDUCATION

Bachelor of Science
Computer Science

Additional Major
Cybersecurity

University of South Carolina
Upstate

📅 August 2020 - April 2024

📍 Spartanburg, SC

🎓 3.9 GPA

SKILLS

Programming Languages

- React.js, HTML, CSS, Java, Python, C++, JavaScript

Frameworks & Libraries

- Spring Boot, TensorFlow, Keras, Axios, OpenCV

Databases

- MySQL, MongoDB

- A compilation of projects illustrating expertise in distributed and network programming, highlighting advanced Java development skills
- Developed multiple applications demonstrating competencies in multithreaded programming, network communication, and user interface design
- Showcased the ability to design and implement complex software systems requiring real-time data exchange and processing

Tools & Platforms

- AWS, Git, Arduino IDE

Concepts

- Multithreaded Programming, Artificial Intelligence Programming, REST API Development, Distributed Systems, Relational Database Design

Twitter Sentiment Analysis - Senior Portfolio Project

Full-stack Developer

Current Project

- Technologies Used: Python, TensorFlow, Keras, DistilBERT, Trainer API
- Sentiment analysis of tweets using DistilBERT and a six-layer CNN, exploring the intersection of AI and social media data and applying advanced machine learning models