

Lakelon Bailey

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EDUCATION

University of Tennessee, Knoxville

BS in Computer Science

Minor in Mathematics

Graduation: May 2025

Dean's List: Fall 2022, Spring 2023

Vanderbilt University

Full-Stack Web Development Bootcamp

Graduation: September 2022

Grade: A

COURSEWORK

Data Structures and Algorithms

Linear Algebra

Numerical Algorithms/Scientific Computing

Multivariate Calculus

Differential Equations

SKILLS

Programming Languages

C, RISC-V Assembly, MATLAB, JavaScript, C++, Python, Java, HTML, SQL, CSS

Tools and Frameworks

Git	Digital Ocean
NodeJS	AWS S3
Google Cloud	MySQL
Express	MongoDB
Django	PostgreSQL
React	REST APIs
Vue	Spring Framework
Unix	Linux

Soft Skills

Communication, Leadership, Project Management, Adaptivity, Teaching, Self-teaching, Written communication, Teamwork, Agile Methodology, Client Communication

PROJECTS

app.actprep.com: Web application that serves as the backbone for all internal processes of ACTprep.com, Inc.

Memebook: Meme social media that allows users to create/like/comment memes and interact with friends.

lakelonbailey.com: React app that demonstrates my frontend capability while providing a detailed display of my skills and experience.

ACTprep.com Enrollment App: An application that gathers necessary information from newly enrolled students before they begin the ACT prep program.

WORK EXPERIENCE

Backend Development Intern, IBM

Summer 2023 - Present

- Contributing to the strategic re-architecture of a global Vue.js/Spring Boot application that facilitates over 315k users, including all IBM employees.
- Leading a pivotal role in the transformation of the application from a monolithic design to a microservices-based structure.
- Refining and implementing modern authentication and authorization mechanisms, significantly improving system security and user experience by ensuring the right access controls for various user roles.
- Collaborating closely with a dynamic team and adapting to agile methodologies.
- Reduced on-page-load API calls by 68% by removing unnecessary data retrieval.

Chief Technology Officer, ACTprep.com, Inc.

March 2023 - Present

- Managing the technology division of ACTprep.com.
- Leading the development and maintenance of the ACTprep.com web application: an application designed to receive and process all company data for the purpose of coaching, analytics, student progress monitoring, and more. This application serves approximately 100 daily users and involves over 30 unique database tables.
- Improving scale of the company by increasing the total possible students a coach can mentor by over 100%.
- Consistently decreasing company costs, having reduced annual labor/supplies costs by over \$50,000.

Software Developer, Make Me Modern, Inc.

August 2022 - March 2023

- Managed and developed the ACTprep.com web application project.
- Assisted in backend and frontend development for assorted company projects.
- Accelerated the primary data query speed of <https://postageapi.com/stats/> page by over 99%.
- Successfully developed a data pipeline to fully migrate a MySQL database to a MongoDB Atlas Cluster while maintaining data relationships for a database containing over 150,000 total records.

Software Developer, ACTprep.com, Inc.

May 2022 - August 2022

- Developed a full-stack web application that utilizes the Google Sheets API to store student enrollment data provided by new students as they traverse through the application's enrollment process.
- Streamlined the ACTprep.com enrollment process by relieving the enrollment coordinator of the need to retrieve student enrollment data through text communication.
- This application successfully facilitated the enrollment process of over 100 students.

INVOLVEMENT

- University of Tennessee Swimming Club - Member
- University of Tennessee Hack4Impact - Tech Lead