

Lakelon Bailey

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EDUCATION

University of Tennessee, Knoxville

BS in Computer Science

Minor in Mathematics

Graduation: May 2025

Cumulative GPA: 3.29

Vanderbilt University

Full-Stack Web Development Bootcamp

Graduation: September 2022

Grade: A

SKILLS

Programming Languages

Intermediate:

- C, RISC-V Assembly, MATLAB

Advanced:

- JavaScript, C++, Python, Java
HTML, SQL, CSS

Technical Skills

Object-oriented programming

Functional programming

Test driven development

Full-stack development

Software/Framework Experience

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

Soft Skills

Problem-solving

Self-teaching

Self-starting

Communication

Project management

Teaching

Adaptability

Agile Development

INVOLVEMENT

University of Tennessee Swimming Club - Member

University of Tennessee Hack4Impact - Tech Lead

COURSEWORK

Data Structures and Algorithms

Linear Algebra

Numerical Algorithms/Scientific Computing

Multivariate Calculus

Differential Equations

WORK EXPERIENCE

IBM

Summer 2023 - Present

Backend Development Intern

- Contributing to the strategic re-architecture of a global Vue.js/Spring Boot application, serving approximately 240,000 device-related requests annually from IBM employees, new hires, vendors, and contractors.
- Leading a pivotal role in the transformation of the application from a monolithic design to a microservices-based structure, enabling more scalable, maintainable, and resilient system performance.
- 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, adapting to agile methodologies, and utilizing problem-solving skills to navigate complex software development challenges.
- Gaining extensive experience with large-scale application development, cloud computing, and cybersecurity best practices, all in a global corporate setting.

ACTprep.com, Inc.

March 2023 - Present

Chief Technology Officer

- 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.
- Building a team of developers for ACTprep.com as we transition to more technology-dependent operations.
- Contributing to the future of ACTprep.com through calculated decisions and consistent reevaluation of company policies.

Make Me Modern, Inc.

August 2022 - March 2023

Full-Stack Software Developer

- Managed and developed the ACTprep.com web application project.
- Assisted in backend and frontend development for assorted company projects.
- Developed and optimized generalized internal software to be used across full-stack projects.
- Successfully developed a translation pathway to fully migrate a MySQL database to a MongoDB Atlas Cluster while maintaining data relationships for a database containing over 150,000 total records.

ACTprep.com, Inc.

Summer 2022

Contractual Application Developer

- 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.