

Zizwe Mtonga

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EDUCATION

B.S., Computer Science - Honors Scholar

Alabama A&M University | Normal, AL.

Expected May 2027

GPA: 3.95/4.0

Awards and Honors: 2x President's Medallion, Dean's List, Honor Roll

COURSEWORK AND CERTIFICATION

Data Structures and Algorithms • Intro to Programming I - II • Computers and Ethics • Calculus I-II • Discrete Structures • Intro to Java • Intro to Digital Logic Design

SOFTWARE AND TECHNICAL SKILLS

Programming Experience: Python, Java, HTML, CSS, JavaScript, C++, PHP, SQL, C#

Frameworks & Libraries: React, Next.js, Tailwind CSS, Pandas, NumPy

Tools: Redis, Docker, Git, GitHub, VS Code, Visual Studio, Canva, Figma, Google Collab, Anaconda, Jupyter, UNITY

WORK EXPERIENCE

Oracle | Redwood Shores, CA

Software Engineering Intern - Fusion Applications Development

May 2025 – Jul 2025

- Reduced the Responsys Event Flow team's storage overhead by over 30% by developing a Bloom Filter PoC with **Java Lettuce**.
- Built a distributed **Valkey (Redis)** Cluster with **Docker Compose** and **RedisBloom** to support scalable Bloom Filter operations.
- Collaborated with a team of 4 to engineer a solution for persisting Bloom Filter bytes to **MySQL** via **JDBC** for 90 days, enabling filter recovery, event uniqueness tracking, and historical analysis.

EICOP | Los Angeles, CA

Game Design Intern

May 2024 – Jul 2024

- Redesigned 2 games from the Black Games Archive to increase representation of Black, Indigenous, and People of color (BIPOC) communities.
- Collaborated with 2 interns to design, remodel, and develop games using **C#** and the **UNITY** game engine, increasing character diversity by 25%.

AAMU Tutorial Assistance Network | Normal, AL

Tutor & Writing Assistant

Jan 2024 – Present

- Tutor an average of 3 students in **Python Programming Language** (CS104), **C++**, **OOD**, and writing courses every week.
- Developed 20+ coding exercise materials and teaching aids to enhance understanding of programming and writing concepts.

PROJECTS

AI4ALL | Ignite Fellow

Aug 2025 - Present

- Selected for the fall 2025 Stanford AI4ALL Ignite Accelerator, receiving mentorship and hands-on training in AI/ML.

Roommate Harmony | Developer

July 2025

- Built 20+ user full-stack Roommate Management web app with **React**, **Tailwind CSS**, and **Shadcn UI**.
- Integrated **Firebase** and **Firestore** for secure user login, real-time data sync, and persistent client-side state management.
- Leveraged **GPT-4** and **Anthropic Claude** through **InvokeLLM** integration to power smart all-round functionality.

Smart Learning Path | Researcher and Software Developer

Aug 2024

- Conducted 250+ hours of **Research** to determine how learning can be tailored towards individual students' needs.
- Employed **PHP (HTML Embedded)**, **CSS** and **APIs** on the **front-end**, and **MySQL** for back-end **database management** in Smart Learning System **Web App**, resulting in a 60% increase in quiz and testing software efficiency.

LEADERSHIP

Google Developer Students Club AAMU | Operations Manager

Aug 2024 - Present

- Collaborated with executive team to organize 10+ events, manage event logistics, and plan for future events.

OTHER INVOLVEMENT

Scholar, CodePath Intermediate Technical Interview Prep | Member, National Society of Black Engineers (NSBE) | Member, Alabama A&M Association for Computing Machinery | Thurgood Marshall College Fund Scholar (TMCF) | Member, Alabama A&M Computer Science Club | Colorstack Fellow | Adobe + HBCU 20x20 Fellow