**Oluwatobi Olajide**

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**EDUCATION**

**Morgan State University Baltimore, Maryland**

*B.S in Computer Science Expected Graduation, May 2027*

* **Related Coursework:** Computer Systems, Data Structures and Algorithm

**SKILLS**

**Programming:** Python, C, JavaScript, Typescript

**Libraries:** Express, React, Flask, Next.js, Django, Jquery, Node.js, Pandas

**Tools:** Mongo, Firebase, Git, Docker, Bash, Linux, AWS, Google Maps Platform, SDKs

**Experience**

[Cosmos](https://cosmos-six.vercel.app) (Python, Flask, Expresss.js, Mongo, Typescript, Node.js, React)

*Full Stack Engineer September 2024*

* Developed a scalable Python backend with mongo engine for efficient data modeling of messages, events, organizers, and notifications. Integrated Redis Queue for optimizing background tasks like notifications, emails, and AWS S3 uploads.
* Engineered real-time communication with websockets, enabling instant messaging, live notifications, and client interactions. Optimized lookup operations using a Trie data structure for fast text search and Redis for caching frequently accessed data.
* Deployed the application using Docker and Docker Compose, and configured Nginx as a load balancer, reverse proxy, and SSL proxy to enhance performance and security.

**PROJECTS**

**Fast Track** (Python, Flask, Expresss.js, Mongo, Typescript, Node.js, React)

*Backend Engineer April 2024*

* Developed an interactive mock interview feature with Rev.ai's speech-to-text, providing AI-generated feedback to boost user confidence and clarity.
* Created an exploration tool for navigating majors and career paths, offering resources for skill development and detailed field insights.
* Successfully demoed Fast Track to nearly 200 attendees, receiving positive feedback for its impact in education and professional growth.

[**Tic Tac Toe**](https://tic-tac-toe-brown-sigma.vercel.app/) (React, SCSS, JavaScript, Firebase)

Frontend Engineer *June 2024*

* Designed and developed a responsive website using React and SCSS, ensuring optimal performance and usability across various devices.
* Utilized Firebase snapshots to manage and simulate real-time interactions between users, supporting both multiplayer and single-player modes with AI opponents.
* Successfully deployed the application on Vercel, maintaining a smooth user experience with at least 5 gameplays daily and 30 active users.

**AWARDS**

**Web Development Competition Baltimore, Maryland**

*Hosted by Google and Society for Advancement of Computer Science (SACS)**Dec 2023*

* Secured 1st place as part of a three-member team for an outstanding web application project (Teachable).

[**Google HBCU Hackathon**](https://www.linkedin.com/posts/oluwatobi-olajide_googlehbcuhackathon-innovation-networkingopportunity-activity-7168673264653824000-O_lJ) **D.C, Washington**

*Hosted by Google**March 2024*

* Achieved a top 6 placement as part of a four-member team for an outstanding application (Culture Connect).

**Morgan Hacks Baltimore, Maryland**

*Hosted by Morgan State University**April 2024*

* Achieved a top 6 placement as part of a four-member team for an outstanding application (Fast Track).