**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

**Tools:** Node.js, Express.js, Flask, React, Mongo, Firebase, Git, Next.js, Docker, Bash, Linux

**Experience**

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

*Full Stack Engineer July 2024*

* **Developed a scalable backend with Python** leveraging MongoEngine for efficient data modeling of documents like messages, events, organizers, speakers, and notifications. Integrated Redis Queue and workers for optimizing background tasks such as notifications, emails, and file uploads to AWS S3.
* **Engineered real-time communication using Socket.IO**, enabling instant messaging, live notifications, and other client interactions. Implemented JWT-based and Google authentication for secure access to user data.
* **Deployed the application on a DigitalOcean virtual server**, using Docker and Docker Compose for container management. Configured Nginx as a load balancer, reverse and SSL proxy for improved performance and security. Used Redis for caching frequently accessed data and optimized lookup (fast text search) operations using a Trie data structure.

**PROJECTS**

Health Hub Scheduler (React, TypeScript, Flask, Node.js, Python, MongoDB)

*Full Stack Engineer July 2024*

* Built a Flask backend with Mongo Engine and JWT-based authentication, securing user sessions for over 50 users and integrated with a React frontend for seamless UX.
* Designed an appointment scheduling system managing 20+ appointments monthly using stacks, hash maps, and linked lists, with RBAC for over 10 health professionals, patients, and receptionists, ensuring data integrity and performance.

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

*Backend Engineer May 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.

**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).