

# Oluwatomisn John Badmus

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## EDUCATION

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### George Mason University

*Bachelor of Science in Computer Science*

Fairfax, VA

Aug. 2023 – May 2027

### CodePath

*Intermediate Technical Interview Prep*

Remote

June 2024 – Aug. 2024

*Intermediate Cybersecurity*

Feb. 2024 – May 2024

## EXPERIENCE

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### Undergraduate Teaching Assistant

*Computer Science Department*

January 2024 – Present

Fairfax, VA

- Provide invaluable assistance to both professors and students, offering insights, guidance, and support to enhance the learning experience within the classroom setting
- Assist with proctoring midterms and exams, ensuring a smooth and fair testing environment.
- Exhibit a strong commitment to providing prompt answers and effective solutions to questions and issues via the online platform Piazza or by email.

### Mason Experimental Geometry Lab (MEGL) Outreach Intern

*Mathematics Department*

January 2024 – Present

Fairfax, VA

- Spearheading educational initiatives for over 300 middle school and elementary students, enhancing learning experiences through the development of new activities and the refinement of existing ones
- Developing and implementing a new activity, "Bubbles," which effectively conveys complex concepts of volume and surfaces, increasing student comprehension and enthusiasm
- Presenting the progress of outreach initiatives to the GMU mathematics community, highlighting new activities and improvements made to existing ones

### Software Engineering Fellow

*Headstarter*

July 2024 – Aug 2024

Remote

- Built 5 AI apps and APIs using NextJS, React, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 50+ users
- Developed projects from design to deployment leading 3 other engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git and microservice patterns

## PROJECTS

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### AI Chat bot | *Next.JS, React, OpenAI, EC2, Amazon Bedrock, Caddy, Pinecone*

Aug. 2024 – Aug. 2024

- \* Developed an AI-powered customer support chatbot using Next.JS and the Anthropic Claude 3 Haiku API, implementing dynamic, intelligent responses with advanced Generative AI models
- \* Integrated and deployed the chatbot to AWS EC2 servers, ensuring scalability and reliability in a cloud environment
- \* Leveraged AWS Bedrock API for Large Language Model (LLM) responses, enhancing the chatbot's ability to handle complex user queries

### AI Flashcards | *Next.JS, React, Firebase, OpenAI, Clerk, Stripe*

Aug. 2024 – Aug. 2024

- \* Developed a SaaS platform using Next.js and React that integrates with OpenAI to generate AI-powered flashcards, enhancing users' study routines through dynamically created content
- \* Implemented secure user authentication and management with Clerk, and leveraged Firebase Firestore for real-time data storage, ensuring seamless access to personalized flashcard collections
- \* Integrated Stripe for robust payment processing, enabling subscription management and monetization while maintaining a responsive, modern UI through Material-UI

## TECHNICAL SKILLS

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**Languages:** Linux, Java, Python, C/C++, JavaScript, HTML/CSS

**Frameworks:** React, Node.JS, Next.JS, Vite, Flask, JUnit, Stripe, Material-UI, Firebase, Clerk

**Developer Tools:** Git, OpenAI, Gemini, Amazon Bedrock, VS Code, Replit, Google Colab

**Libraries:** pandas, request, TensorFlow, ZenRows, NLTK, BeautifulSoup, pdfplumber, re, JSON