

# Tiwalayo Oluwalade

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## EDUCATION

### Towson University

Towson, MD

*Bachelor of Science in Computer Science*

**Expected Graduation: May 2026**

Relevant Coursework: Software Engineering, Web-Based Programming, Data Structures and Algorithms

Certifications: Google AI Essentials

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java

**Libraries/Frameworks:** Node.js, Express.js, React.js, Next.js, LangChain, Mongoose, Shadcn UI

**Developer Tools:** Pinecone, Hugging Face, MongoDB, Postman, Axios, OpenAI API, Git, GitHub

## EXPERIENCE

### Data Management Mentee

June 2025 – August 2025

*Bloomberg*

**Princeton, NJ**

- Conducted data analysis on **50,000+** customer loan records using Python and Pandas, identifying that lower loan amounts strongly correlated with customers not stating loan intent, highlighting questionnaire gaps
- Built Tableau dashboard analyzing customer churn patterns with 7 features & filters, incorporating mentor feedback for **data visualization** strategies and identifying high-risk customer segments

### Software Engineering Fellow

July 2024 – September 2024

*Headstarter*

**Remote**

- Built full-stack **financial literacy** chatbot with **Next.js** and **TypeScript**, boosting response efficiency by **50%**
- Pioneered **RAG pipeline** for student professor reviews with Python and Pinecone to streamline professor insights
- Created full-stack AI Flashcards app with OpenAI and **Stripe API**, generating tailored study cards for students

### Software Engineering Fellow

July 2024 – September 2024

*SourceShip.dev*

**Remote**

- Created passenger-tracking app using **HTML**, **CSS**, and JavaScript, improving route efficiency by 15%
- Leveraged Git for version control across **5** collaborative projects to streamline team workflows and communication
- Deployed Vercel **CI/CD** pipelines in **Agile** environment, reducing deployment time from 7 minutes to **2 minutes**

## PROJECTS

### Coursesight Course Reviews | Startup Project

November 2024 – February 2025

- Architected backend API using **Node.js** for authentication, video uploads, and course review submissions, integrating MongoDB database with error logging to improve course data accuracy
- Reduced frontend build time from 10 to **7 hours** by leading team of 3 to develop React interface with **10+** reusable components using GitHub Copilot, enabling faster delivery through AI-assisted workflows
- Built product waitlist of **75** students using Tally forms, securing **\$1,200** in funding from pitch competitions

### Cozy Corners Furniture Products | Personal Project | [Github](#)

December 2024 – January 2025

- Engineered **end-to-end** REST API with Node.js and Express, cutting data retrieval latency by 500 milliseconds
- Created global state management with Zustand to efficiently handle MongoDB data, boosting loading performance
- Developed robust front-end architecture using Chakra UI and React Hot Toast, to streamline user information

### AI Codebase RAG | Team Project | [Github](#)

November 2024 – November 2024

- Programmed AI-powered code search tool using **Python**, indexing over **10,000 lines of code** from multiple repositories with Pinecone, achieving query response times under **2 seconds**
- Improved embedding system with Hugging Face and LangChain to increase embedding speeds by over **50%**
- Designed Python back-end by separating ingestion, embedding, and querying pipelines, reducing bugs and runtime

## LEADERSHIP & ACTIVITIES

**ColorStack:** Fellow

September 2024 - Present

**Amazon:** Campus Prep Series

July 2025 - August 2025

**Towson Maker Fest:** 2nd Place Hackathon Winner

November 2024 - November 2024

**CodePath:** Technical Interview Prep Fellow

September 2024 - November 2024