

# Hassan Amiri

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## Summary

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Undergraduate Computer Science student at Kwara State University, actively developing and applying skills in \*\*Backend Engineering\*\*. Proficient in the Node.js ecosystem (JavaScript/TypeScript, Express, MongoDB) and Python, with a strong focus on building secure, high-performance RESTful APIs. Interested in staying abreast of new technology developments and an avid chess player (1600+ ELO).

## Education

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**Computer Science, B.Sc. (Undergraduate)**  
Kwara State University, Malete

*Expected Graduation: 2030*

## Technical Skills

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**Languages/Runtime:** JavaScript (ES6+), Python, TypeScript (Beginner), HTML, CSS, SQL

**Frameworks/Libraries:** Node.js, Express.js, Axios, Mongoose, Minimist, Tailwind CSS (for personal projects, if applicable)

**Databases/ORMs:** MongoDB, SQLite, Prisma ORM

**Tools/DevOps:** Git, GitHub, Neovim, JWT, Bcryptjs, OpenWeatherMap API, TMDB API

## Selected Projects

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- **CBT Platform API (In Progress)**

- ▶ Developing a secure, high-performance REST API for a Computer-Based Test (CBT) platform using Node.js/Express.
- ▶ Handles dynamic test generation, accurate scoring, and tracked practice sessions.
- ▶ Node.js, Express.js, MongoDB, Mongoose, JWT, Bcryptjs

- **CS-NOTE**

- ▶ Centralized static web resource for 100-level Computer Science students with structured outlines and formula cheat sheets.
- ▶ Features a dynamic quiz system powered by Gemini Pro for interactive learning.
- ▶ HTML, CSS, JavaScript (Vanilla), JSON, Gemini Pro

- **Rumi: Personal Blogging API**

- ▶ RESTful API for a personal blogging platform, demonstrating robust backend architecture.
- ▶ Utilizes an ORM to manage data persistence and interaction with a SQLite database.
- ▶ Node.js, Express, Prisma (ORM), SQLite

- **SummerWinter Weather API**

- ▶ Robust weather API fetching real-time data from OpenWeatherMap for any requested city.

- ▶ Implemented Redis caching to significantly improve performance and minimize external API calls.
  - ▶ Node.js, Express, Redis, OpenWeatherMap API
- **Horizon / PayPal Expense Tracker**
    - ▶ Developed two separate RESTful APIs for user management (Horizon) and personal finance tracking (PayPal).
    - ▶ Both include full CRUD operations and secure user authentication.
    - ▶ Node.js, Express, MongoDB, Mongoose
  - **CLI Tools (GitHub User / Movie)**
    - ▶ Developed command-line interfaces to fetch and display GitHub user activity and TMDB movie listings.
    - ▶ Practical experience with third-party APIs and handling CLI arguments.
    - ▶ Node.js, GitHub API, TMDB API, Minimist, Axios

## *Experience*

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### **Computer Teacher**

Imbash

2024 – 2025

**Ilorin, Kwara State**

- Designed and implemented standards-aligned lesson plans to foster practical computer literacy.
- Incorporated technology and effective classroom management to create a positive learning environment.
- Provided hands-on opportunities for students to build and demonstrate essential computer skills.