

## Isah Timothy

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### Professional Summary:

Full-stack developer with a strong background in JavaScript, React, Next.js, Tailwind CSS, Node.js, Express, and Zig. Currently expanding expertise in system programming, particularly with C and Zig languages. Proficient in building web applications, CLI tools, and parsers with a focus on performance and scalability.

### Skills:

- **Programming Languages:** JavaScript, TypeScript, React, Next.js, Tailwind CSS, Node.js, Express, Zig, C
- **System Programming:** Zig, C
- **Database Management:** MongoDB, SQL
- **Soft Skills:** Teamwork, Communication, Problem-Solving

### Work Experience:

- **RnrCommerce (2023-2025)** – Full-Stack Developer
  - Developed and maintained full-stack web applications.
  - Implemented scalable backend solutions for web platforms.
- **Snergy (2023)** – Full-Stack Developer
  - Built and deployed interactive web applications.
  - Collaborated with cross-functional teams to deliver software solutions.

### Education:

- Physics Undergraduate

### Projects:

- **Health & Compliance App Backend:**
  - Implemented the API endpoints in **Node.js** for a health and compliance application, enabling users to report incidents such as accidents and other emergencies.
  - Enabled remote communication between medical professionals and patients, and allowed medical experts to post beneficial blogs for users.
  - Utilized **JWT** for secure user authorization and **MongoDB** for database management.
  - Integrated **Cloudinary** for image storage and implemented email and password verification processes.

- Secured user passwords using **bcrypt** for encryption before storing them in the database.
- **Prompt Sharing App:**
  - Built a full-stack **CRUD** application using **Next.js** and **Tailwind CSS**, enabling users to create, read, update, and delete AI-generated prompts.
  - Integrated **OAuth** authentication to ensure secure and smooth user login and session management.
  - Used **MongoDB** for the database to manage user prompts efficiently.
- **AI-Powered CLI Tool:**
  - Developed a **CLI tool** in **Node.js** using the **commander.js** library, which enables users to pass commands in the terminal.
  - Integrated the **Gemini API** for generating project ideas based on categories or custom topics provided by users.
- **Task Manager CLI Tool:**
  - Optimized memory usage and ensured **memory safety** using **Zig** to develop a task manager CLI tool.
  - Implemented functionality to allow users to add tasks, update their completion status (complete or incomplete), and view a list of tasks.
  - Focused on optimizing memory allocation for better performance and stability.
- **CSV to JSON Parser:**
  - Implemented a **CSV to JSON parser** in **Zig**, focusing on clean, optimized code with proper memory allocation.
  - Ensured **memory safety** throughout the parsing process.
- **Regular Expression Parser:**
  - Implemented **regular expression matching and parsing** in **Zig**, based on Russ Cox's article.
  - Focused on writing clean, efficient, and optimized code for the parser.
- **WebSocket Protocol:**
  - Developed a **WebSocket protocol** from scratch in **Node.js** to enable real-time communication between clients and servers.
  - Ensured clean and optimizable code for efficient, low-latency communication.
- **Blog App Backend Development:**
  - Developed the backend for a full-fledged blog application, designing and implementing RESTful API endpoints.
  - Integrated **Cloudinary** for efficient image storage for user profiles.
  - Implemented **JWT** authentication for secure user authorization and access control.
  - Optimized the email notification system for fast and reliable delivery.
  - Implemented **OTP verification** for secure password recovery.

### Open Source Contributions:

- All projects mentioned are open-source and available for public use and collaboration.

### Interests:

- Reading ML/AI research papers
  - Watching movies
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