

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.

Experienced in developing AI-powered backend solutions integrating OpenAI, Anthropic, Google Gen AI API, and MongoDB technologies for scalable and secure data management.

### Skills:

- Programming Languages: JavaScript, TypeScript, React, Next.js, Tailwind CSS, Node.js, Express, Zig, C
- System Programming: Zig, C
- Database Management: MongoDB, SQL
- AI Integration: OpenAI, Anthropic API, Google Gen AI API, LangGraph
- Backend Development: Express.js, RESTful APIs, MongoDB Atlas
- 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:

- Autonomous AI Agent for HR Management:
  - Built an autonomous AI-powered HR management agent using TypeScript and LangGraph.
  - Integrated OpenAI's GPT and Anthropic API for intelligent conversational flows.
  - Utilized MongoDB Atlas for conversation data storage and vector search for employee lookups.
  - Developed a RESTful API using Express.js for chat interactions.
- 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