

# OLADELE UTHMAN

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## SKILLS

### Languages

Go • PHP • JavaScript • Bash

### Backend

REST APIs • HTTP/HTTPS • TCP • TLS/SSL • Database Design

### Databases

PostgreSQL • MySQL • Redis

### Tools

Docker • Git • Linux • Laravel • Sveltekit

## ABOUT

Backend developer building APIs and services. Learning systems programming through socket programming, protocol implementation, and performance optimization. Write tests, care about code quality.

## EDUCATION

### B.Sc. Computer Science

University of Ilorin  
In Progress

## EXPERIENCE

### Independent Developer

2023 - Present

- Build backend APIs and services in Go and PHP
- Explore systems programming through personal projects
- Write tests and debug performance issues

## PROJECTS

### Raw-HTTP

HTTP/HTTPS server built on TCP sockets without frameworks. Peak performance: 4,000 RPS

- Custom HTTP parser, connection pooling, keep-alive, and TLS support from scratch
  - Optimized performance from 250 RPS to 4,000 RPS through bottleneck analysis
  - Implements HTTP/1.1 protocol, socket management, and SSL encryption
- Go • TCP Sockets • HTTP • TLS • Performance Profiling

2025

[Code]

### GO-CHAT

Real-time terminal chat server. Handles 100+ concurrent users with AI integration

- Multiple lobbies, private messaging, user profiles with 50+ emoji options
  - Goroutines and channels for concurrency, TLS encryption, rate limiting, message history
  - Integrated Gemini AI for context-aware responses. ~50MB baseline, ~10KB per client
- Go • TCP Networking • TLS • Concurrency • AI Integration

2025

[Code]

### Axion

CLI calculator with recursive descent parser and AST evaluation

- Supports scientific functions, unit conversions, factorial, trigonometry
  - Proper operator precedence handling, floating-point precision, error recovery
  - Persistent history storage with JSON, comprehensive edge case handling
- Go • Parser Design • AST • CLI • Error Handling

2025

[Code]

### GoLexer

High-performance tokenizer for compilers and code analysis tools

- 50+ token types, full UTF-8 support, modern number formats (hex, binary, octal, scientific notation)
  - Validated against 1,700+ edge cases. Single-pass, low-memory, streaming or batch mode
- Go • Lexical Analysis • Compiler Tools

2025

[Code]

### Brevity

AI-powered PDF summarizer. Multiple summary styles for students and researchers

- Custom summarization: short summaries, detailed research, objective questions, dumbed-down explanations
  - Theme selection, AI-powered using Google Gemini, used by students for exam preparation
  - Solved UTF-8 encoding issues with character mapping, handles PDF text extraction
- Laravel • Sveltekit • Supabase • Generative AI

2025

[Live]

### Swift2FA

Secure two-factor authentication PHP library

- Supports TOTP (authenticator apps), email, and SMS authentication methods
  - Built-in encryption for secret keys, QR code generation, time-step configuration
- PHP • 2FA • Security • Encryption

2025

[Code]