

# Hasan A. TEKEOGLU

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## SUMMARY

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Self-motivated **FullStack Developer** with a strong foundation in mathematics and computer science concepts. Deep technical proficiency in **Go and JavaScript**, with a proven ability to build systems from the ground up—including a **dependency-free web framework** leveraging TCP socket programming. Experienced in high-impact **open-source collaboration** within globally recognized projects (10k+ stars).

## RELEVANT EXPERIENCE

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### Open Source ([git.new/NdsE6uM](https://github.com/NdsE6uM))

Technologies: Qml, Qt, Bash, Linux

- Contributed to the open-source **Linux desktop environment** Illogical-Impulse (10K+ GitHub stars).
- Developed a [dark mode module](#) allowing users to switch seamlessly between light and dark themes, and a [weather module](#) providing detailed, real-time weather information.

## PROJECTS

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### Real-Time Chat Application ([chat.tekeoglan.site](https://chat.tekeoglan.site))

Technologies: Next.js, Go/Gin, MongoDB, Redis, Docker

- Designed and implemented a **RESTful API** to manage users, channels, friends, and messages, ensuring a scalable and decoupled architecture.
- Developed a **session manager** service to handle user sessions and prevent unauthorized activities.
- Developed a real-time communication layer using **WebSockets**, enabling live messaging and presence updates for a dynamic user experience.
- **Containerized** both the backend and frontend for cross-platform compatibility and ease of deployment.

### Web Framework ([git.new/ZGhHVf7](https://github.com/ZGhHVf7))

Technologies: Go, TCP, HTTP

- Developed a minimalistic and **dependency-free web framework** from the ground up, demonstrating a good understanding of low-level networking and the **HTTP/1.1** protocol.
- Developed a custom HTTP request parser and response writer, completely avoiding the standard **net/http** library.
- Designed a clean and intuitive **routing system** to map URL paths to specific request handlers.
- Authored a comprehensive suite of **unit tests** to ensure the reliability and correctness of the framework's components.

### Discrete Mathematics ([git.new/S1PPRqp](https://github.com/S1PPRqp))

Technologies: Go

- Developed a collection of programs to implement and solve problems from the book "**Discrete Mathematics and Its Applications**".
- Implemented algorithms and data structures for various mathematical concepts, including **number theory, set theory, graph theory, and probability**.

## TECHNICAL SKILLS

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**Programming Languages:** JavaScript, Java, Go, TypeScript, SQL, Bash

**Frameworks and Tools:** React.js, Next.js, Node.js, Nest.js, Go/Gin, Docker, PostgreSQL, MongoDB, Redis

**Concepts:** Microservices Architecture, RESTful APIs, CI/CD, Agile Development, MVC, Linux

## EDUCATION

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### Ataturk University

Associated Degree in Computer Programming

- Relevant Coursework: [Intermediate Java for Web Development](#)