

Mohammed Farhan

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Education

Ramaiah Institute of Technology

Bachelor of Engineering in Computer Science and Engineering

CGPA: 9.07 / 10.00 (up to 4th semester)

Oct 2024 – May 2028 (Expected)

Bengaluru, Karnataka

Technical Skills

Languages	JavaScript, TypeScript, C, C++, C#
Frameworks and Libraries	Next.js, React.js, Asp.Net, Express.js, Node.js
Databases	PostgreSQL, MongoDB, Redis
Tools	Git, GitHub, Nginx, Docker, Cloudflare

Projects

Shorty | C#, ASP.NET Core, PostgreSQL, Redis, Docker

[GitHub](#)

A production-ready URL shortening service with a layered .NET backend, Next.js frontend, and containerized infrastructure.

- Built a URL shortening and redirection service using ASP.NET Core with Clean Architecture, PostgreSQL, and EF Core
- Added Redis caching and containerized deployment with Docker Compose and Nginx, including HTTPS termination and request routing

Lambda | C++, Parsing, AST, Lambda Calculus

[GitHub](#)

A simple untyped lambda calculus interpreter with a custom parser and abstract syntax tree.

- Built a parser and abstract syntax tree to process lambda calculus expressions, function applications, and variable bindings
- Implemented lambda calculus evaluation with beta reduction, substitution, boolean logic, and Church numerals

NetScribe | C, Linux Raw Sockets, Network Programming

[GitHub](#)

A command-line packet sniffer and injector for capturing and generating network traffic.

- Built a packet sniffer using Linux raw sockets to capture and parse live network traffic directly from the network interface
- Implemented packet injection and benchmarked capture throughput at **104k packets/sec** under high-rate UDP traffic

Open Source Contributions

Express.js Documentation Contributor

- Fixed broken anchor links in non-English Express.js 4.x API documentation by restoring missing API sections ([#2076](#), [#2068](#))

Fumadocs

- Implemented VS Code-style `#region` extraction for MDX `<include />` code blocks ([#2791](#))

Programming Profiles

- [Codeforces Profile](#)
- [AtCoder Profile](#)
- [LeetCode Profile](#)