

Hi i'm, Gowtham.S

A tech enthusiast with a passion for Linux, CLI, and open-source, driven by curiosity and a focus on problem-solving, innovation, and building impactful technology solutions.

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Professional Summary

Results-oriented Software Engineer with 3+ years of experience building cross-platform, production-grade applications serving 1000+ users and leading 2 cross-functional projects. Expertise in **Go, TypeScript, and system programming** with proven track record of published tools (**NPM packages, CLI utilities**). Passionate about **Linux systems, open-source technologies**, and creating innovative technical solutions across diverse domains, while continuously learning emerging technologies.

Experience

• Green Collar Agritech Solutions

Bengaluru, IN

Freelancer → Student Intern → Software Engineering Intern

Nov. 2023 -- Present

- Engineered responsive web applications using **React.js and Next.js** following software engineering best practices, serving 500+ daily active users
- Boosted application performance by 40% through **TanStack Query caching** application
- Improved **SEO performance** through **server-side rendering**, increasing organic traffic by 25%
- Built and optimized cross-platform desktop and mobile applications with **Flutter**, applying responsive UI principles and native performance optimization
- Partnered with 5+ engineers in Agile methodology, consistently delivering features on schedule across multiple sprint cycles through **code reviews**
- Contributed actively to **daily Scrum standups and sprint planning** with development team, consistently meeting project deadlines and **contributing to technical discussions**

Projects

• Cred - Secure CLI Password Manager

GitHub | Docs

Go | Cobra CLI

- Developed production-ready CLI tool for **secure password, environment variables**, and SSH key management
- Applied **GPG encryption** with **Git-based storage enabling version control** and audit trails
- Attained zero-knowledge architecture with client-side encryption
- Reduced credentials management overhead by 60% through streamlined CLI workflows for users
- Created comprehensive documentation with 20+ command examples and security best practices guide

• Abstract-UI - React Component Library

GitHub | Demo | NPM

React | TypeScript | Tailwind CSS | Storybook

- Built and released a reusable accessibility-first component library to **NPM** with 100+ weekly downloads
- Documented 12+ components with 30+ configurable variants in **Storybook**
- Reduced development time by 30% for **React/Next.js** applications through a standardized design system
- Integrated **TypeScript** for type safety and improved developer experience
- Realized 95%+ developer satisfaction through intuitive API design and comprehensive TypeScript definitions

- **L2Shift - Cross-Platform MAC Address Manager**

GitHub

C | *System programming*

- Engineered cross-platform CLI tool for **MAC address** modification using native system APIs
- Executed Linux support via **direct syscalls** and macOS compatibility through **ifconfig** integration
- Attained 100% success rate across multiple Linux distributions and macOS versions
- Demonstrated **advanced networking** knowledge and **low-level system programming** expertise
- Designed an intuitive command-line interface with help system and validation, reducing user errors by 80%

- **NeoUrl - High-Performance URL Shortener**

GitHub | Live

Go | *HTMX*

- Enhanced **cloud-native** URL shortening service with **Go backend** and modern **HTMX frontend**
- Implemented efficient URL mapping algorithm with **collision detection** and custom short codes
- Deployed on **cloud infrastructure** serving 500+ daily URL conversions with 99.9% uptime
- Optimized performance, achieving **sub-100ms response times** with minimal resource usage
- Applied smart caching layers for database optimization that reuses shortened endpoints for duplicate URLs, improving response efficiency by 45%

Technical Skills

- **Languages** : Go, TypeScript, JavaScript, Python, C/C++, Java, Dart, SQL
- **Frontend** : React.js, Next.js, Flutter, HTML/CSS, Tailwind CSS, Shadcn-UI, TanStack Tools
- **Backend & API** : Node.js, Express.js, FastAPI, RESTful APIs, WebSockets
- **Databases** : PostgreSQL, MongoDB, Database Design, Query Optimization
- **DevOps & Tools** : Linux, Docker/Podman, Git, AWS (EC2, S3), Shell Scripting, CI/CD
- **Development Tools** : Neovim, Bruno/Postman, Storybook, Vite, ESLint, Prettier, Cobra CLI, tmux

Education

- **Kongu Engineering College**

Tamilnadu, IN

B.Tech in Artificial Intelligence & Machine Learning; GPA: 8.90/10.0

Nov. 2022 -- May. 2026

Achievements

- Certified MongoDB Associate Developer ([Certificate](#))
- Solved 500+ **data structures and algorithms problems** on **LeetCode** across **Go, Python, and Java**, maintaining a 250+ day streak.