

# M.V. HARISH KUMAR

Full-Stack Developer & Systems Programmer

 [harishtpj@gmail.com](mailto:harishtpj@gmail.com) |  +91 9940559664 |  Chennai, Tamil Nadu, India |  [github.com/harishtpj](https://github.com/harishtpj)  
 [linkedin.com/in/harishtpj](https://linkedin.com/in/harishtpj)

🔥 Full-Stack Developer with deep knowledge in Low-Level & High-Level Programming

## ACADEMIC PROFILE

### B.Tech Computer Science & Engineering - VIT Chennai (Present)

Current First Year

Vellore Institute of Technology, Chennai | JEE Main: 95.187 percentile

### CBSE Grade 12 - Velammal Vidhyashram, Surapet (2025)

492/500 2 Centums

CS: 100 | Chemistry: 100 | Math: 99 | Physics: 98 | English: 95

### CBSE Grade 10 - Velammal Newgen School, Thiruvottiyur (2023)

471/500 1 Centum

Tamil: 100 | Math: 98 | Social: 95 | Science: 94 | English: 84

## TECHNICAL SKILLS

### Core Programming Languages

C, C++, Python, Java, C#, JavaScript, PHP, Go

### Web Development

HTML5, CSS3, PHP, REST APIs, Full-Stack Development, Web Services

### Database Management

Oracle, MySQL, PostgreSQL, SQLite, MongoDB, Redis

### Networking & Security

Socket Programming, Firewall Configuration, ISP Routing, Virtual LAN (VLAN), VPN Connections, AWS SAP Connector, Network Security Fundamentals

### Systems & Hardware Programming

CISC (Intel), RISC (Power/SPARC), Arduino, Microbit, OS Development, Kernel Programming, Embedded Systems

### AI & Machine Learning

Computer Vision, Image Recognition, Voice Processing, Natural Language Processing, Data Analysis, AI-Powered Applications

### Enterprise & Development Tools

Oracle Forms 10g, ERP Development, Git/GitHub, Linux/Unix, VMware, Android Development, Compiler Design

### Additional Programming Languages

Ruby, Rust, Perl, COBOL, Pascal, Kotlin, Prolog, QBASIC, Smalltalk, LISP, Ada, Lua, Julia, Erlang, Elixir, Fortran, Haskell, Assembly Language

## NOTABLE PROJECTS

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### MKS - Minimal Kernel System

C + x86 Assembly

Developed a CLI-based operating system kernel with memory management and system calls.

GitHub: [github.com/harishtpj/MKS](https://github.com/harishtpj/MKS)

### AI Assistant for Disabled People

Micro:bit + AI/ML

Developed an AI-powered assistant using micro:bit that recognizes known individuals and reads image descriptions for visually impaired users.

### Voice-Based Excel Data Assistant

Python + AI/ML

Created a Python application that answers questions based on Excel data and responds via voice conversation using NLP and speech synthesis.

GitHub: [github.com/harishtpj/Family-AI](https://github.com/harishtpj/Family-AI)

### Custom Programming Languages

Compiler Design

Created three complete programming languages from scratch, including lexical analysis, parsing, and code generation.

### Project Milk - ERP System

Oracle Forms 10g

Built comprehensive ERP system for dairy management with inventory, sales, and customer relations.

GitHub: [github.com/harishtpj/Project-Milk](https://github.com/harishtpj/Project-Milk)

### Cafeteria Management System

Python

Grade 12 CS project: CLI-based interactive cafeteria management system with menu, orders, and billing.

GitHub: [github.com/harishtpj/Cafeteria-Management-System](https://github.com/harishtpj/Cafeteria-Management-System)

### AutoREST - API Automator

Ruby

Automation tool for REST API testing and management with comprehensive workflow capabilities.

GitHub: [github.com/harishtpj/AutoREST](https://github.com/harishtpj/AutoREST)

### thinftp - FTP Server

Python

Fully functional FTP server with multi-client support and security features.

GitHub: [github.com/harishtpj/thinftp](https://github.com/harishtpj/thinftp)

### GoDNS - DNS Server

Go

Custom DNS server with domain name resolution and multiple record type support.

GitHub: [github.com/harishtpj/GoDNS](https://github.com/harishtpj/GoDNS)

### MiME - Mail Server System

C

Implemented complete SMTP mail server with message routing and authentication capabilities.

GitHub: [github.com/harishtpj/MiME](https://github.com/harishtpj/MiME)

## CERTIFICATIONS

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AWS Certified Cloud Practitioner

UpGrad - Basic Python Programming

UpGrad - Core Java Basics

UpGrad - AI in Real World

UpGrad - Database Design with MySQL

## PROFESSIONAL SUMMARY

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Full-stack developer with programming experience from school level since 2017. Proficient in 20+ programming languages with expertise spanning web development, systems programming, networking, cybersecurity, and AI/ML applications. Demonstrated ability to build complex projects from scratch, including operating systems, compilers, network services, and AI-powered assistive technologies. Strong academic performance with exceptional grades in Computer Science and qualification in JEE Advanced. Experienced in both CISC and RISC processor architectures, microcontroller programming, and enterprise application development. Deep interest in emerging technologies including Quantum Computing, Artificial Intelligence, and Machine Learning. Proven expertise in networking fundamentals, socket programming, and VPN configurations through multiple server implementation projects. Seeking opportunities to contribute technical expertise and innovative problem-solving skills to challenging software development projects in cutting-edge domains.

## ADDITIONAL INFORMATION

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**Date of Birth:** March 6, 2007

**Father's Name:** M. Venkatesan

**Mother's Name:** V. Janani

**Address:** No 18, South Telephone Colony, 2nd Street,  
Madhavaram Milk Colony, Chennai – 600051

**Research Interests:** Computer Technology Research,  
Quantum Computing, Artificial Intelligence & Machine  
Learning

**Specializations:** Systems Programming, Compiler Design,  
Network Programming, CISC/RISC Architecture, AI/ML  
Applications

**Languages Known:** English, Tamil

**Portfolio:** <https://harishtpj.netlify.app/> | **GitHub:** <https://github.com/harishtpj> | **LinkedIn:** <https://www.linkedin.com/in/harishtpj>