

M.V. HARISH KUMAR

Full-Stack Developer & Systems Programmer

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 Chennai, Tamil Nadu, India

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

ACADEMIC PROFILE

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

CGPA: 9.1/10 First Year

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

CBSE Grade 12 - Velammal New Gen School, Surapet (2025)

492/500 2 Centums

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

CBSE Grade 10 - Velammal New Gen School, Madhavaram (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

Quantum Teleportation VPN Protocol (QTVP)

Python + Qiskit + Quantum Computing

Designed and simulated a quantum VPN protocol using quantum teleportation principles for secure communication. Implemented hybrid quantum-classical framework with 12-qubit header exchange and entanglement-based data transfer using Qiskit.

[GitHub: github.com/hecker-go-brrr/QTVP](https://github.com/hecker-go-brrr/QTVP)

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)

thinfpt - FTP Server

Python

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

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

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



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

GitHub: github.com/harishtpj/MiME

CERTIFICATIONS

AWS Certified Cloud Practitioner

Cisco C++ Essentials

UpGrad - Basic Python Programming

UpGrad - Core Java Basics

UpGrad - AI in Real World

UpGrad - Database Design with MySQL

PROFESSIONAL SUMMARY

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

Date of Birth: March 6, 2007

Research Interests: Computer Technology Research, Quantum

Father's Name: M. Venkatesan

Computing, Artificial Intelligence & Machine Learning

Mother's Name: V. Janani

Specializations: Systems Programming, Compiler Design,

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

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>