

Hari Shankar Bakkamanthala

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Professional Summary

Passionate computer science student with strong programming fundamentals and problem-solving skills. Experienced in full-stack development with MERN and MEAN stacks, Python scripting, and algorithm implementation. Demonstrated ability to build end-to-end applications with frontend, backend, and database integration. Enthusiastic about learning new technologies and tackling complex programming challenges in a dynamic development environment.

Education

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| Parul University <i>B.Tech, Computer Science & Engineering - Cybersecurity</i> <i>Vadodara, India</i> | <i>Jul 2022 – May 2026</i> <i>(Expected)</i> |
| Sri Sarswathi Junior College <i>Intermediate, Mathematics, Physics, Chemistry</i> <i>Ongole, India</i> | <i>Jun 2020 – Apr 2022</i> |
| Sri Rama Krishna E.M High School <i>upto High School</i> <i>Ongole, India</i> | <i>Mar 2010 – Mar 2020</i> |

Technical Skills

Programming Languages: Python, Java, C, JavaScript, SQL, Bash Scripting

Full-Stack Development: MERN Stack (MongoDB, Express.js, React, Node.js), MEAN Stack (Angular), Laravel (PHP)

Frontend Technologies: React, Angular, JavaScript, HTML5, CSS3, Responsive Design


Backend & Database: Node.js, Express.js, Flask, MongoDB, MySQL, RESTful APIs, Database Design

Tools & Technologies: Git, Linux, AWS Cloud, Chrome Extensions, API Integration, Data Structures & Algorithms

Development Experience

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| Software Development Intern <i>Tinkering Hub, Parul University</i> | <i>Vadodara, India</i> <i>Dec 2024 – Apr 2025</i> |
| <ul style="list-style-type: none">Developed full-stack applications using Python and modern web frameworksBuilt Chrome extension with real-time data processing and user-friendly interfaceImplemented efficient algorithms and data structures for performance optimization | |
| Technical Development Intern <i>SkillVertex</i> | <i>Remote</i> <i>Dec 2024 – Jan 2025</i> |
| <ul style="list-style-type: none">Developed automated testing tools and scripts for application validationCreated comprehensive technical documentation and reportsCollaborated on projects requiring strong analytical and problem-solving skills | |

Projects

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| Full-Stack Vulnerability Tracker Application | GitHub Profile  |
| <ul style="list-style-type: none">Built comprehensive web application using React frontend and Flask backend with MySQL databaseImplemented RESTful APIs for data management and real-time updates | |

- Created responsive UI with modern design patterns and optimized user experience
- Integrated multiple backend services for data processing and analysis

Real-Time Chat Application

[Live Demo](#) 

- Developed secure messaging platform using MEAN Stack (MongoDB, Express, Angular, Node.js)
- Implemented real-time communication with WebSocket integration
- Built end-to-end encryption features and user authentication system
- Deployed scalable application with optimized database queries and performance

Job Portal Web Application

[Live Demo](#) 

- Developed a full-stack Job Portal using the MERN stack (MongoDB, Express, React, Node.js)
- Implemented role-based access control: Employers can post and manage jobs; Candidates can search and apply for jobs
- Enabled candidates to apply for jobs with resume uploads and cover letters
- Built features for employers to view and manage applications and track candidate statuses
- Designed a responsive user interface and deployed the platform for public use

File Analysis Web Platform

[Live Platform](#) 

- Created Laravel-based web application with file upload and analysis capabilities
- Implemented algorithm-based pattern matching and signature detection
- Built admin dashboard with data visualization and reporting features

Browser Extension Development

Chrome Extension

- Developed Chrome extension using JavaScript with machine learning integration
- Implemented real-time URL analysis and user notification system
- Created intuitive user interface with seamless browser integration

Algorithm Implementation Projects

Python/JavaScript

- Built packet analysis tool for network traffic monitoring and data processing
- Developed password validation system using regex patterns and entropy calculations
- Created image processing algorithms for encryption/decryption using pixel manipulation

Problem Solving & Competitive Programming

- Secured 3rd position in HackArise CTF - demonstrated strong problem-solving and programming skills
- Active participant in programming challenges and technical competitions
- Completed various algorithmic challenges on platforms like PicoCTF
- Regular practice with data structures, algorithms, and coding problems

Relevant Certifications

- AWS Cloud Practitioner Essentials (AWS Training, Aug 2024)
- Google Cloud Professional Certificate (Google Cloud, Dec 2024)
- 8-week Programming & Development Training (Internshala Trainings, 82% score)
- Introduction to Cybersecurity (Cisco) - Programming and Security Fundamentals
- Various online programming and development courses

Languages

Telugu: Native **English:** Professional Working **Hindi:** Professional Working