

## Aravind Mangalagiri

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### Professional Summary

Results-driven Full-Stack Developer with over 2 years of experience in designing and developing scalable web applications using MERN stack (MongoDB, Express.js, React, Node.js), JavaScript, and Python. Proficient in software engineering fundamentals, including algorithms, design patterns, and the Software Development Life Cycle (SDLC). Adept at leveraging UI frameworks like React and delivering RESTful web services to enhance user experience and system performance. Strong problem-solver with excellent communication skills, a self-starter attitude, and a passion for learning and innovation.

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### Education

**Master of Science in Computer Science** | University of South Dakota, College of Arts and Science | Vermillion, SD | August 2023 – May 2025

**Bachelor of Technology in Computer Science** | Bharat Institute of Engineering and Technology | Hyderabad, Telangana

**Diploma in Computer Science and Engineering** | SGM Govt Polytechnic College | Hyderabad, Telangana

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### Technical Skills

- **Programming Languages:** Python, Java, JavaScript
  - **Web Development:** React, Redux, Angular, HTML5, CSS3, Bootstrap, Node.js, Express.js, PHP
  - **Databases:** MongoDB, SQL
  - **Testing & Methodologies:** Unit Testing, Test-Driven Development (TDD), SDLC, Algorithms, Design Patterns, RESTful Web Services, Git
  - **Software Tools:** Advanced Excel, PowerPoint, MS Word
  - **Operating Systems:** Windows, Unix/Linux, Mac OS
  - **Soft Skills:** Leadership, Problem-Solving, Communication, Team Collaboration
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### Professional Experience

#### Programmer Analyst

*Cognizant Technology Solutions | Hyderabad, Telangana | December 2021 – August 2023*

- Developed and maintained full-stack web applications using React, Node.js, and MongoDB, improving scalability and user experience for enterprise-level solutions.
- Designed and implemented RESTful APIs to support a Retail Banking System, enhancing operational efficiency and security for a team of 4 developers.
- Applied software engineering fundamentals, including algorithms and design patterns, to optimize application performance and resolve customer issues.
- Utilized JavaScript, HTML5, and CSS3 to create responsive front-end interfaces, ensuring seamless cross-platform functionality.

#### Computer Network Engineer (Apprenticeship)

*Defence Research and Development Laboratory | Hyderabad, Telangana | May 2015 – November 2015*

- Configured and optimized network infrastructure (VLANs, routers, switches) using real-time troubleshooting and problem-solving skills..
- Worked under Scientist 'F' M. Narashima, Supported secure system operations under senior leadership, gaining hands-on experience in network protocols and cybersecurity fundamentals

## Network Administration & Cloud Engineer (Training Program)

*Jetking Infotrain | Hyderabad, Telangana | December 2021 – August 2023*

- Developed expertise in network and system support, cloud computing, and modernized data center operations.
  - Gained hands-on experience in Storage Technologies, 5G, and Cloud Infrastructure.
  - Successfully completed the program, reinforcing network security and cloud computing proficiency.
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### Projects

#### Detection and Classification of Fruit Disease Using Image Processing & Cloud Computing

- Built a Python-based image processing system to detect and classify fruit diseases with 90%+ accuracy.
- Implemented real-time alert messaging to improve agricultural efficiency and prevent crop loss.
- Developed a cloud-integrated model for multiple disease detections in a single instance.

#### Cloud-Based Real-Time Collaboration Platform

- Designed and developed a cloud-based platform enabling real-time collaboration, winning 1st place in a college Hackathon.
- Utilized MERN stack to create a responsive and scalable web application.

#### Spotify clone

- Designed the frontend using HTML, CSS(Bootstrap), JavaScript
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### Certifications

- **MERN Stack Web Development & Data Structures and Algorithms** | Apna College
  - **Python & AI/ML Specialization** | Syntax\_Sarcasm
  - **Masters in Network Administration & Cloud Computing** | Jetking Infotrain
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### Additional Information

- **Languages:** Telugu (Native), English (Full Professional Proficiency), Hindi (Professional Working Proficiency)
- **GitHub Contributions:** Open-source projects in MERN stack, AI/ML, and cloud computing