



ARAVIND G

Backend Developer

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Summary

Results-driven Backend Developer with extensive experience in designing and deploying scalable web applications and integrated IoT RFID solutions. Proficient in C#, Python, Node.js, and SQL, with a strong foundation in database management and API development. Proven expertise in integrating hardware with software systems, optimizing database performance via stored procedures, and automating institutional workflows. Skilled in agile development, system analysis, and delivering user-centric software solutions.

Education

Master of Computer Applications (MCA) - CGPA: 8.0

Sri Ramakrishna Mission Vidyalaya
College of Arts and Science,
Coimbatore
Aug 2022 — May 2024

Bachelor of Computer Science - CGPA: 7.46

Sri Ramakrishna Mission Vidyalaya
College of Arts and Science,
Coimbatore
Aug 2019 — May 2022

Programming Languages

C#, Python, Node.js, JavaScript, SQL, PHP

Web Technologies & Databases

HTML5, CSS3, ASP.NET, REST APIs, MySQL, MSSQL, Stored Procedures

Work Experience

PSGRKCW, Coimbatore

Oct 2024 — Nov 2025

ERP Assistant Programmer

Led the full-stack development, customization, and deployment of critical institutional systems across campus operations, including security, IT asset management, and academic workflows.

- Architected and deployed a multi-module Gate Software Ecosystem (RFID, Camera Integration) for real-time student/staff movement monitoring and advanced analytics.
- Customized and managed the GLPI platform, deploying inventory agents across 1800+ systems for centralized IT asset and service desk management.
- Engineered and configured an end-to-end Research Journal Management System, automating submission, peer review, and publication workflows.
- Spearheaded initial R&D and architectural planning for a centralized Blood Bank Management System, streamlining donor and hospital request processes.

2CQR Automation Private Limited, Coimbatore

Dec 2022 — Aug 2024

Software Developer

Spearheaded the development of IoT-based RFID tracking systems and high-performance backend services using Node.js and MySQL.

- Designed and deployed scalable backend APIs using Node.js, handling high-volume data transactions for RFID tracking.
- Engineered complex MySQL stored procedures to optimize data retrieval and reporting speeds.
- Integrated UHF and HF RFID readers into IoT ecosystems, enabling real-time asset tracking and access control.
- Managed the full software development lifecycle (SDLC) for key modules as an individual contributor.
- Refactored legacy codebases to improve maintainability and adherence to modern coding standards.
- Collaborated with cross-functional teams to implement ASP.NET framework solutions.

2CQR Automation Private Limited, Coimbatore

Jul 2022 — Dec 2022

.NET Developer Intern

Contributed to full-stack web application development, gaining hands-on experience in C#, .NET, and database integration.

Tools & Platforms

Git/GitHub, VS Code, Kali Linux, Raspberry Pi, IoT Integrations, RFID (UHF/HF), GLPI

Core Competencies

Backend Development, API Design, Database Management, System Analysis, Agile Methodologies, Problem Solving

Languages

English, Tamil

Certifications

- NCC 'B' &'C' Certificate
- Chatgpt for Everyone - guvi
- Programming Using Python - guvi
- Game development using PyGame - guvi
- Software Testing, Deployment, and Maintenance Strategies - IBM
- Generative AI: Foundation Models and Platforms - IBM
- Product Management: Building AI-Powered Products - SkillUp
- Product Management: Developing and Delivering a New Product - SkillUp
- Generative AI: Introduction and Applications - IBM
- Product Management: Initial Product Strategy and Plan - SkillUp
- Systems Analyst Capstone Project - IBM
- Generative AI: Prompt Engineering Basics - IBM
- Generative AI: Supercharge Your Product Management Career - SkillUp
- Product Management: Foundations & Stakeholder Collaboration - SkillUp
- Create Animated Social Media Posts using Canva - Coursera
- Business Analysis: Process Modeling & Requirements Gathering - SkillUp
- Getting Started with Microsoft PowerPoint - Coursera
- Product Management: An Introduction - IBM
- IT Systems Design and Analysis - SkillUp
- Organic Marketing: Facebook Groups For Small Businesses - Coursera
- Information Technology (IT) Fundamentals for Everyone - IBM
- Business Analysis: Project and Stakeholder Management - SkillUp
- Small Business Marketing Using YouTube - Coursera

- Assisted in the development of web solutions using C# and ASP.NET.
- Collaborated on database schema design and SQL query writing.
- Resolved critical bugs and participated in code reviews to ensure software quality.
- Acquired proficiency in Node.js and Python through practical project application.

Projects

Gate Software Ecosystem Development - PSGRKCW Oct 2024 — Nov 2025
Engineered a Gate Software Ecosystem for PSGRKCW, integrating RFID access control with real-time analytics.

- Technologies: RFID (UHF/HF), SQL, Camera Integration, Analytics Dashboards
- Developed integrated RFID tracking software supporting live camera snapshots and real-time dashboards.
- Built an automated reporting system utilizing SQL-driven analytics for daily/monthly movement breakdowns.
- Implemented an ID Card Tagging system with support for QR codes and duplicate detection.
- Automated email delivery for daily analytical reports to administration.

GLPI – IT Asset & Service Desk Management - PSGRKCW Oct 2024 — Nov 2025
Customized and deployed GLPI for institutional IT asset tracking and service desk automation.

- Technologies: GLPI, PHP, SQL, VoIP Integration
- Deployed GLPI Inventory Agents across 1800+ systems, achieving real-time asset visibility.
- Automated ticket routing workflows based on technician groups to reduce resolution time.
- Designed bulk import templates for rapid onboarding of user and location data.
- Integrated network devices, VoIP phones, and printers into a centralized asset inventory.

Blood Bank Management System – Planning Phase - PSGRKCW Oct 2024 — Nov 2025
Designed a centralized Blood Bank Management System to streamline donor and hospital request workflows.

- Technologies: Requirements Analysis, Workflow Mapping, System Architecture
- Led R&D and stakeholder interviews to define system requirements.
- Drafted comprehensive specifications for Donor Registry and Inventory Management modules.
- Architected a modular development plan to support phased implementation.

Journal Management System Implementation - PSGRKCW Oct 2024 — Nov 2025
Implemented a Research Journal Management System tailored for institutional editorial workflows.

- Technologies: Workflow Automation, Role-Based Access Control

- Introduction to Systems Analysis - IBM
- Get Started with HubSpot - Coursera
- Introduction to Project Management with ClickUp - Coursera
- Build your business brand using Canva - Coursera
- Use Mailchimp to Build an E-mail Marketing Campaign - Coursera
- Create and Design Digital Products using Canva - Coursera
- Getting started with Azure IOT Hub - Coursera
- Google Ads for Beginners - Coursera
- Business Analysis & Process Management - Coursera
- Use Canva to Design Digital Course Collateral - Coursera
- Improve your productivity and performance with Canva - Coursera
- Build a Full Website using WordPress - Coursera
- Automate tasks and processes with Jira - Coursera
- Introduction to CRM with HubSpot - Coursera

- Configured end-to-end editorial workflows including submission, peer review, and publication.
- Established role-based environments for authors, reviewers, and editors.
- Conducted lifecycle validation and customized the UI for institutional branding.

Stock Control Inventory Management Application Using RFID (2CQR Project) Jan 2024 — May 2024

Developed a Stock Control Inventory Management Application utilizing RFID for real-time tracking.

- Technologies: C#, ASP.NET, RFID, MSSQL, REST API
- Built RESTful APIs to handle inventory operations and data synchronization.
- Implemented RFID logic for automated stock counting and movement tracking.
- Optimized MSSQL stored procedures to handle large inventory datasets efficiently.

Library Fine Collection Kiosk Software Using RFID Aug 2023 — Dec 2023

Created a Library Fine Collection Kiosk integrated with Razor Payment Gateway and RFID.

- Technologies: C#, .NET, RFID, RazorPay, MSSQL
- Developed a user-friendly desktop kiosk interface for self-service fine payment.
- Integrated Razor Payment Gateway for secure, real-time transaction processing.
- Utilized RFID data to automate user identification and fine calculation.

IoT-Based Smart Library System using RFID Jan 2023 — May 2023

Developed an IoT-Based Smart Library System for automated book check-in/out.

- Technologies: C#, ASP.NET, SQL Server, RFID, IoT
- Designed a web-based interface for monitoring library transactions.
- Integrated hardware readers for real-time book tracking and security.
- Optimized SQL database schema to support high-frequency transaction logs.

Bitcoin Mining Setup using Raspberry Pi (UG Project) Jan 2022 — Apr 2022

Constructed a low-cost Bitcoin mining cluster using Raspberry Pi.

- Technologies: Raspberry Pi, Kali Linux, Python
- Configured Kali Linux on Raspberry Pi hardware for distributed computing tasks.
- Implemented and tuned open-source mining software for hardware-constrained environments.
- Conducted performance analysis to maximize hash rates within energy limits.