SUDHARSAN T

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PROFILE SUMMARY

MCA student (final year, graduating 2026) at Alagappa University, Tamil Nadu, with strong foundations in software engineering, algorithms, and systems programming. Skilled in Java, C++, Python, SQL, API development, and web services, with hands-on experience in building web applications and data-driven solutions. Adept at problem solving, debugging, and designing scalable applications with clean, modular, and maintainable code. Enthusiastic about applying engineering knowledge to solve real-world challenges and contribute to impactful projects at **Google**.

TECHNICAL SKILLS

Languages & Frameworks: Java, C++, Python, JavaScript, TypeScript, React, Node.js, Spring, Django, Flask,HTML, CSS.

Databases: MySQL, PostgreSQL, MongoDB, Google BigQuery, SQL.

Web Services & APIs: RESTful APIs, SOAP, API Integration.

Cloud & Tools: Google Cloud Platform (GCP), AWS, Docker, Git/GitHub, Postman, JIRA, Google Docs, Google Sheets.

Core Competencies: Systems Software, Algorithms, Application Development, Debugging, Workflow Automation, Solution Implementation, Problem Solving, Critical Thinking, Teamwork, Documentation, Good Communication, Presentation Skills.

EDUCATION

Master of Computer Applications (MCA) – Alagappa University, Tamil Nadu (2024 – 2026, Final Year)

Bachelor of Science in Computer Science – Bharathidasan University (2021 – 2024), 77.3%

INTERNSHIP EXPERIENCE

Python Development Intern – Mainflow Technologies (May 2025 – July 2025)

  Built scalable web-based applications and automation tools using Python, Django/Flask,HTML, CSS, and JavaScript.

  Integrated REST APIs and Google Ads APIs to enhance application functionality. Debugged backend processes, optimized performance, and collaborated in cross-functional teams to implement client-focused solutions.

Data Analysis Intern – Mainflow Technologies (Jan 2025 – Mar 2025)

  Conducted data analysis with Python, Pandas, NumPy, SQL, Matplotlib, and Seaborn. Identified patterns, anomalies, and trends to support business decisions. Built data visualization dashboards using Power BI and Tableau.

AICTE Internship (virtual) – AI: Transformative Learning Microsoft & SAP (jan 2025-Feb 2025**)**

  Gained exposure to Machine Learning, NLP, and Computer Vision. Implemented AI applications with Python and Azure AI services while following ethical AI practices.

PROJECTS

E-commerce Web Application

  Designed and developed a full-stack e-commerce platform with product catalog, shopping cart, payment gateway integration, and order tracking. Focused on scalability, responsiveness, and secure transactions for real-world usability.

Technologies: React, Node.js, Express.js, MongoDB, RESTful APIs, JavaScript, CSS

AI Chatbot for Customer Support

  Built an AI-powered chatbot to automate customer queries, provide product information, and resolve common issues.

  Integrated with a web interface for real-time interaction, reducing manual support workload.

Technologies: Python, Flask, NLP (spaCy, NLTK), HTML/CSS, JavaScript

Sales Data Analysis

  Conducted data cleaning, statistical analysis, and visualization of sales datasets to identify seasonal trends, anomalies, and customer preferences. Delivered actionable insights through dashboards for improved business decision-making.

Technologies: Python, Pandas, NumPy, Matplotlib, Seaborn, SQL, Power BI, Tableau

E-commerce Data Dashboard

  Designed an interactive dashboard to monitor revenue, customer acquisition, and order trends in real time. Enabled stakeholders to make data-driven marketing and sales decisions.

Technologies: Tableau, Power BI, SQL, Excel

Security in AD-HOC Network using Encrypted Data Transmission and Steganography

  Proposed and implemented a lightweight security model combining encryption with steganography to ensure secure communication in ad-hoc networks. Improved confidentiality and integrity in resource-constrained environments against interception and attacks.

Technologies: ASP.NET, Cryptography, Steganography Algorithms, Network Simulation.

CERTIFICATIONS

• Advanced Software Engineering – Walmart

• Geo-Data Sharing and Cybersecurity – ISRO

• Data Visualization for Business Insights – TATA

• Data Analytics & Visualization – Accenture Job Simulation

• Accelerate Data Science Workflows with Zero Code Changes – NVIDIA

• Building RAG Agents with LLMs – NVIDIA.