



# Mohamed Nihal

Systems Engineer

## Contact

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## About Me

Accomplished software engineer with extensive experience in developing and managing digital solutions across various platforms, including significant exposure to Google Ads campaigns and data-driven marketing strategies. Demonstrated ability to lead technical teams and implement innovative solutions that enhance business operations and marketing effectiveness. Skilled in leveraging advanced analytics and digital certifications to drive marketing success.

## Personal interests

- Problem Solving
- Skill Documentation
- Decision Making
- Communicative
- Efficiency in Task Management
- Analytical Abilities

## Experience

- Assistant Systems Engineer**  
*Tata Consultancy Services (TCS)* Jan 2024 - present  
Client: Johnson & Johnson (Singapore)
  - Collaborated on Generative AI Model Project: Led a team to develop a tailored AI model using Python for backend operations and React for frontend interfaces. This project aimed to enhance business decision-making processes by integrating predictive analytics with user-friendly interfaces.
  - Software Integration and Enhancement: Managed the seamless integration of Java and JavaScript modules to improve system functionalities, meeting evolving client requirements and ensuring robust, scalable solutions.
  - Infrastructure and CI/CD Management: Oversaw the design and deployment of scalable applications using Microsoft Azure. Utilized Jenkins and Kubernetes to streamline continuous integration and delivery processes, enhancing deployment efficiency and system reliability.
  - Database Design and Maintenance: Designed and maintained complex databases using Azure SQL, pgAdmin, and PostgreSQL, which supported critical data management and business intelligence operations.
- IT Administrator**  
*Al Safwan Marine* Sep 2023 - Dec 2023
  - ERP and CRM Administration: Managed the deployment and administration of ERP and CRM systems, which played a crucial role in streamlining company operations and improving data flow across departments.
  - Organizational Development: Initiated and implemented strategies for organizational development, focusing on enhancing operational efficiency through technology-driven solutions.
  - Technical Support and Problem Resolution: Provided comprehensive technical support, resolving issues swiftly to maintain system integrity and minimize downtime, ensuring continuous business operations.
- Junior Programmer**  
*Softop Solutions Pvt Ltd* 2022 - 2023
  - Mobile Application Development: Developed mobile applications using AngularJS, HTML, and CSS, C# , .net framework which enhanced user engagement and functionality across iOS and Android platforms.
  - SDK and Firebase Integration: Integrated SDKs and utilized Firebase for app pushing and backend services, improving application performance and user data management.
  - Collaborative Software Development: Actively participated in developer meetings, code reviews, and quality assurance activities, contributing to the development of high-quality software products and fostering a collaborative team environment.
- IT Coordinator**  
*Eurotech Baths and Kitchen Ltd* 2018 - 2022
  - Digital Marketing Initiatives: Led social media marketing campaigns across platforms such as Instagram, Facebook, LinkedIn, Google Ads, and e-commerce sectors like Alibaba, Flipkart, Amazon, Paytm, Myntra, Moglix, Cloudtail India, significantly increasing brand visibility and customer engagement.
  - Software and Network Management: Managed network infrastructure and server databases, including MySQL, ensuring robust performance and security across company operations.
  - Project Planning and System Upgrades: Participated in project planning sessions and recommended software upgrades for existing systems, enhancing functionality and user experience.

## ⚙️ Technical Skills

- **Programming Languages:** Python, Java, JavaScript, PHP, HTML, CSS
- **Web Development:** ReactJS, AngularJS, Bootstrap for front-end; Node.js, Django for back-end
- **Database Management:** Proficient in Azure Synapse, Azure SQL, PostgreSQL, MySQL
- **Artificial Intelligence & Machine Learning:** Experience with GPT-4, LangChain, VGG16
- **DevOps Tools:** Kubernetes, Docker, Jenkins for efficient deployment
- **Mobile App Development:** iOS, and Android development with Firebase integration
- **ERP & CRM Systems:** ERPNext, Frappe, Odoo 17 CRM
- **Networking:** Network infrastructure management and server administration
- **Advanced Techniques:** Genetic Algorithm, SQL Query Optimization

## ⚙️ Certifications

- Microsoft Certified: Azure Fundamentals - Microsoft
- Microsoft Certified: Azure AI Engineer Associate
- Google Ads for Beginners - Coursera
- Create a Google Ads Video Campaign - Coursera
- Create a Google Ads Search Campaign - Coursera
- Create a Google Ads Display Campaign - Coursera

## ⚙️ Languages Known

- English
  - Hindi
- Arabic
  - Malayalam

## 📁 Internship

Inventrom Private Limited (Bolt IoT)

Role : Student Intern

- Gained hands-on experience with IoT and Machine Learning applications, enhancing technical and analytical capabilities.
- Participated in projects aimed at increasing brand awareness and business development, aligning with marketing strategy and digital campaign management.

## 🎓 Education

- **Master of Computer Application**  
*APJ Abdul Kalam Technological University* 2021 - 2023  
MES Engineering College ,Kuttipuram
- **Bachelor of Computer Application**  
*University of Calicut* 2018 - 2021  
MES KEVEEYAM College ,Valanchery
- **Higher Secondary**  
*Central Board of Secondary Education* 2016 - 2018  
in Mathematics and Computer Science  
IES public School , Thrichur
- **Secondary Schooling**  
*Central Board of Secondary Education*  
Al Noor International School, Jeddah, Saudi Arabia

## 📁 Projects

- **J&J MedTech - SageGPT**
  - Developed SageGPT, a Generative AI chatbot enabling natural language database queries using GPT-4 and LangChain.
  - Built a scalable backend with Azure Kubernetes, Synapse, and Node.js APIs.
  - Designed a ReactJS portal for data visualization and user interaction.
  - Deployed on Microsoft Azure, integrating Azure OpenAI for improved business decision-making.
- **EduEgate**
  - EduEgate: Developed staff and parent applications for a cloud-based school management solution, enhancing user experience and connectivity.
  - Implemented a genetic algorithm for teacher timetabling, optimizing schedules and reducing manual workload.
  - Designed a user-friendly interface with customizable features to streamline school operations and improve departmental communication.
- **Hybrid Attention Mechanism-Based Crowd Counting**

Developed a crowd-counting system using Hybrid Attention Mechanism and CNN models. Integrated VGG16 for feature extraction, leveraging Machine Learning and Deep Learning techniques. Tools: Python, Django.
- **Call Center-Based Order Management System**

Designed and implemented a web application for managing call center orders using PHP, JavaScript, Bootstrap, and MySQL.
- **Procurement Management System for Pandemic**

Built a procurement management web application using Core PHP and MySQL, streamlining emergency resource management.
- **Parcel Management System (During TCS ILP)**

Developed a parcel tracking system using Java, SQL (Derby), and MVC Architecture, incorporating Servlets and JSP for dynamic content delivery.