

Muhammed Fuhad

B.Tech in Computer Science Engineering (IoT)

Christ (Deemed to be) University

IoT and Embedded Systems Enthusiast

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Professional Experience

Software Engineer Intern

Toyota Industries Engine India Private Limited

Jan 2023 - Mar 2024 — Bengaluru, Karnataka, India — Hybrid

- Demonstrated strong programming skills by developing software tools to automate engine testing, error detection, and analytics for the TNGA project.
- Proven experience in API development using Flask Restful to enhance project functionality and performance.
- Successfully improved company efficiency and productivity by creating a user-friendly Flutter application for managing production activity as part of the HCPS project.

Digital Marketing In-Charge

Henna Maternity Corner

Aug 2022 - Dec 2022 — Malappuram, Kerala, India — Hybrid

- Oversaw the digital marketing campaigns and improved online presence.
- Analyzed and reported marketing metrics for better decision-making.

Machine Learning Intern

Futurism Technologies and Consulting Private Limited

Jun 2022 - Jul 2022 — Bengaluru, Karnataka, India — Hybrid

- Designed and implemented machine learning models for IoT-based data collection and processing.
- Conducted data preprocessing and model evaluation.

IoT Intern

Industry Institute Interaction Cell (IIIC) - JNEC

May 2022 - Jun 2022 — Bengaluru, Karnataka, India — Hybrid

- Developed IoT prototypes for smart applications.
- Collaborated with teams to build real-world IoT solutions.

Publications

Research Papers

- **Cost Effective and Energy Efficient Drip Irrigation System for IoT Enabled Smart Agriculture**
Springer Conference — DOI: 10.1007/978-981-97-1841-2_14
- **Automated Contactless Continuous Temperature Monitoring System for Pandemic Disease Controlling Infrastructures**
IEEE, May 3, 2023 — DOI: 10.1109/ICRTEC56977.2023.10111891

- **A Study on Potential Integration of Generative AI and IoT with a Real-world Example of Voice Assistance Application**
Submitted for publication

Abstracts

- **Developing IoT Visualization and Control System for Fog Computing Infrastructure**
Abstract presented at ARAIMESF 2024, National Institute of Technology, Rourkela — June 11, 2024

Posters

- **Contactless Continuous Temperature Monitoring System**
Poster presented at Bangalore Tech Summit 2022

Certifications

- **Introduction to Internet of Things**
Stanford University — Issued: September 2020
- **Cloud Computing**
NPTEL — Issued: October 2022
- **Crash Course on Python**
Coursera — Issued: August 2020
- **IBM AI Engineering Specialization**
IBM — Issued: September 2020
- **The Complete Cyber Security Course: Hackers Exposed!**
Udemy — Issued: April 2022
- **Build a Mobile App with Google Sheets on Glide (No Coding)**
Coursera — Issued: April 2022
- **Python Programming 2022 Full Coverage: A Practical Approach**
Udemy — Issued: April 2022
- **Web Design for Everybody: Basics of Web Development & Coding Specialization**
Coursera — Issued: April 2022
- **Getting Started with Azure DevOps Boards**
Coursera — Issued: March 2022
- **Increase SEO Traffic with WordPress**
Coursera — Issued: March 2022
- **Use WordPress to Create a Blog for Your Business**
Coursera — Issued: May 2021
- **Build a Face Recognition Application using Python**
GUVI Geek Networks, IITM Research Park — Issued: April 2021

Projects

- **Drip Irrigation IoT Project**
Developed a cost-effective and energy-efficient drip irrigation system for smart agriculture using IoT technologies.
- **Contactless Continuous Temperature Monitoring System**
Designed and implemented an IoT-based system for real-time, contactless temperature monitoring to enhance pandemic disease control infrastructures.

- **RekthaSeva Blood Donation App**

Created a user-friendly mobile application to connect blood donors and recipients, facilitating seamless blood donation campaigns.

- **IoT Visualization Dashboard and Control System Web App**

Built a comprehensive web application for visualizing and managing IoT devices, integrating fog computing for enhanced performance.

- **News App**

Developed a mobile application for browsing and categorizing news articles, featuring an intuitive user interface and API integration.

- **Ludo Game Application**

Designed and deployed a digital version of the classic Ludo board game with multiplayer functionality and user-friendly controls.

- **Fog Computing Integration Web App**

Engineered a web application demonstrating the integration of IoT with fog computing infrastructure for efficient data processing and device management.

Skills

- Proficient in Internet of Things (IoT) system design and development
- Mobile App Development: Flutter, Java
- Embedded systems programming and debugging
- Machine learning algorithms for IoT data processing
- Programming: Python, Dart, C/C++, Java, C#
- Cloud Computing: Azure, AWS
- DevOps tools: Azure DevOps Boards, Git
- Cybersecurity fundamentals
- Web development: HTML, CSS, JavaScript
- Digital marketing and SEO strategies
- Strong analytical and problem-solving skills

Achievements

- **AI Integrated IoT Device for Voice Assistant:** Secured **4th place with A Grade** in the *Working Model* event at **Kerala School Sasthrolsavam 2019-2020 (State-Level)**.

Volunteer Experience

Congress on Intelligent Systems 2022 (CIS 2022)

September 2022

Language Proficiency

- **English:** Fluent
- **Arabic:** Proficient
- **Malayalam:** Native
- **Hindi:** Intermediate