

Ali Khamooshi

IoT & Web Developer

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Summary

Experienced IoT and web developer with a passion for creating secure, scalable, and user-friendly solutions. Proficient in Python, JavaScript, and modern web frameworks. Seeking challenging opportunities to innovate at the intersection of IoT and web technologies.

Experience

IoT & Web Developer 2019 – Present

- Designed and developed IoT-based smart parking systems using Raspberry Pi, sensors, and 5G connectivity
- Built real-time dashboards with Django & Tailwind CSS for monitoring and managing devices
- Integrated cloud services for secure data storage and remote control of IoT devices
- Developed REST APIs for device communication and mobile/web app integration
- Implemented data analytics features for anomaly detection in IoT sensor data
- Collaborated with cross-functional teams to optimize system performance and user experience

Key Projects

Smart Parking System

- Developed an IoT-based parking management system using Raspberry Pi, ultrasonic sensors, and camera-based edge AI
- Built a responsive dashboard with Django & Tailwind CSS for real-time slot monitoring
- Integrated 5G connectivity for fast and reliable data transmission

Real-Time Data Visualization Dashboard

- Built with React.js and WebSocket to display live IoT sensor data
- Implemented interactive analytics tools for anomaly detection

Blockchain-based Transaction Analyzer

- Developed a Bitcoin transaction anomaly detection tool using the Elliptic dataset
- Applied Random Forest and unsupervised learning to detect potential fraud
- Built a heatmap visualization tool to identify high-risk features

Technical Skills

Programming:	Python, JavaScript, Java, C++, C#, PHP, HTML, CSS
Frameworks:	Django, React.js, Node.js, Flask, Express.js
IoT & Embedded:	Raspberry Pi, ESP32, Arduino, MQTT, Sensors, Edge AI
Databases:	MySQL, MongoDB, PostgreSQL, SQLite, Firebase
DevOps & Cloud:	Docker, AWS, Heroku, CI/CD, Git, GitHub
Other:	REST APIs, WebSockets, Machine Learning, Data Analytics

Certifications

- Cisco CCNA – Networking Fundamentals
- Microsoft MCSA – Windows Server & Administration
- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- IoT Systems & Embedded Programming
- Web Development with Django & React.js
- Cloud Computing & IoT Integration
- Machine Learning & Data Analytics