# Ali Khamooshi

IoT & Web Developer

Website: alikhamooshi.com

**GitHub:** github.com/alikhamooshi

### 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 Al
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