

# Abdalla Elshikh

Üsküdar,İstanbul | 552 686 08 64 | elshikhabdalla0@gmail.com

## Summary

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Computer Engineering graduate with a strong foundation in AI,Azure cloud computing, networking, and web development. Experienced in designing secure applications, deploying cloud-based solutions, and optimizing network infrastructure. Passionate about leveraging AI for cloud optimization and network security. Adept at working with machine learning models, cloud platforms, and networking technologies to enhance system performance and security.

## Experiences

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### *Freelance Developer*

- **AI-Based Healthcare Automation Agent:** Built an AI-powered virtual assistant that automates **routine office work for a healthcare company** by integrating with **Zoho CRM and WhatsApp**, enhancing efficiency.
- **Portfolio Website:** Built using React, Next.js, Tailwind CSS, and Framer Motion, ensuring **fast load times and cross-device compatibility**.
- **Password Manager App:** Developed using Python with **AES-256 encryption and secure key storage mechanisms**.
- **AI Chatbot:** Built a chatbot using **OpenAI's API**, capable of answering user queries.
- **Network Traffic Analyzer:** Developed a basic Python script to **analyze network traffic logs and detect unusual activity**.
- **Cloud File Storage System:** Created a simple cloud storage application using **Firebase Storage**, allowing users to **upload and retrieve files securely**.

### *EGS Bilişim (Sep 2024 - Nov 2024)*

- Developing **internet infrastructure and security camera systems** for enterprise environments.
- Assisting in **cloud network configurations and system security improvements**, including **VPN setup and firewall management**.
- Implementing **IoT-based network monitoring solutions** to enhance **device connectivity and real-time tracking**.

## Network Engineer Intern | Karabük University (Aug 2022 - Oct 2022)

- Configured **Cisco routers and switches**, including VLANs, trunking protocols, and **OSPF/BGP routing**.
- Diagnosed and resolved network issues using **Wireshark, TCPDump, and SNMP monitoring tools**.
- Deployed and maintained **wireless networks with WPA2 security protocols**, ensuring **secure data transmission**.
- Conducted **penetration testing and vulnerability assessment** to identify and fix security loopholes in **university networks**.
- Assisted in the **migration of legacy network infrastructure** to a **software-defined networking (SDN) environment**.

## Projects

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- **AI-Driven Network Security Tool:** Developed an ML-based system to analyze **Wireshark logs for network anomalies**, leveraging **unsupervised learning for anomaly detection**.
- **Real-Time Gesture Recognition System:** Developed an AI-powered system using **TensorFlow, OpenCV, Django and Python** to detect and classify hand gestures in real-time, improving human-computer interaction.
- **AI-Based Healthcare Automation Agent:** Built an AI-powered virtual assistant that automates **routine office work for a healthcare company** by integrating with **Zoho CRM and WhatsApp**, enhancing efficiency and reducing manual workload.
- **Portfolio Website:** Built using React, Next.js, Tailwind CSS, and Framer Motion, ensuring **fast load times and cross-device compatibility**.
- **Password Manager App:** Developed using Python with **AES-256 encryption and secure key storage mechanisms**.

## Skills & Abilities

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- **Programming:** Python, JavaScript, HTML, CSS, React, Next.js, Tailwind CSS
- **AI & Machine Learning:** NumPy, Pandas, TensorFlow, OpenCV
- **Networking:** Cisco routers & switches, Wireshark, DHCP, VLANs, OSPF, BGP, VPNs
- **Security:** Encryption, Secure Network Configurations, Firewalls
- **System Administration:** Windows Server, Linux basics, Azure

# Education

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Istanbul Doğuş University (2024)  
Bachelor of Computer Engineering

# Languages

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- Arabic : Native
- English : C1
- Turkish : B2