

Heersh Salih

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Summary

Experienced Full Stack Developer with over five years of hands-on experience designing, building, and operating production grade systems across frontend, backend, infrastructure, and data layers. I specialize in developing scalable, real-time applications that integrate modern web platforms with backend services, databases, and IoT and V2X data streams. I have a strong systems level understanding of how applications behave end to end, from user interface and API design to networking, security, deployment pipelines, and monitoring. I hold a First-Class BSc Honours degree in Software Development from the University of Suffolk, and I am comfortable working independently or within cross functional teams, consistently translating complex requirements into robust, maintainable solutions while balancing performance, reliability, and long-term maintainability.

Technical Skills

1. Full-Stack Application Development

End-to-end development of complex web applications, covering frontend architecture, backend services, API design, authentication, and data persistence.

2. Frontend Engineering

Experienced in building scalable, role-based, and data-driven user interfaces with modern frameworks, focusing on maintainability, performance, accessibility, and UX consistency rather than isolated UI components.

3. Backend and API Engineering

Strong background in designing and implementing backend services, RESTful APIs, real-time communication, background processing, and system integrations, with emphasis on clean architecture and long-term extensibility.

4. Databases and Data Modelling

Proven experience designing relational schemas, managing migrations, optimizing queries, and working with geospatial and time-series data in production environments.

5. Real-Time Systems and Messaging

Hands-on experience with WebSockets, MQTT, event-driven architectures, and real-time data pipelines supporting live dashboards, telemetry, and IoT/V2X systems.

6. DevOps and Deployment

Strong practical experience with CI/CD pipelines, Docker-based deployments, environment-specific configuration, Linux servers, and cloud/on-prem hybrid setups, with a focus on reliability and repeatability.

7. Infrastructure, Networking and Security Awareness

Solid understanding of networking concepts (VPNs, NAT, ports, firewalls), reverse proxies, SSL/TLS, authentication/authorisation flows, and secure configuration management.

8. Monitoring, Observability and Operations

Experience implementing logging, metrics, health checks, and monitoring dashboards to ensure system stability, traceability, and fast issue diagnosis in live environments.

9. System Integration and IoT Platforms

Extensive experience integrating external systems, third-party APIs, and data platforms, particularly in connected-vehicle, IoT, and real-time data exchange ecosystems.

Professional Experience

Full Stack Developer, *Electronics Computers and Systems Limited, Ipswich*

March 2021 – Present

- Developed web-based applications and dashboards using Angular, TypeScript, Bootstrap, Java, PostgreSQL, and Azure DevOps.
- Managed server environments using Tomcat and Apache, with Certbot SSL certificate configuration.
- Established connections and programmed communication between IoT devices, including autonomous vehicles, mobile devices, Ubuntu servers, React Native mobile apps, BT Data Exchange, and V2X applications, using MQTT brokers and clients, Python, and socket.io connections.
- Experienced in startup software applications.

Junior System Reliability Engineer, *Glasswall Solutions Ltd, Chelmsford*

December 2019 – February 2020

- Maintained and integrated Kubernetes clusters and developed new infrastructure for SaaS applications.
- Worked on cloud infrastructure projects, utilizing Azure DevOps, Git, Kubernetes, Docker, Helm, SQL, and Python.

Self-Employed Computer Technician

2013 – 2019

- Repaired and upgraded electronic devices, set up office computers with network connections, and built home office and gaming computers.

Agency IT Technician, *PC Callout Limited*

2014 – 2016

- Provided on-site computer and laptop repair services, including diagnosing and fixing hardware issues, installing new components, and performing backup/restore operations.

Branch Manager, *Alshams Dis Ltd Sti. (Halabja Group), Mersin-Turkey*

2004 – 2009

- Managed the Turkish branch of a shipping company, overseeing staff, handling client communications, quotations, negotiations, customs clearance, and providing IT support across multiple branches.

Kickboxing & Muay Thai Instructor, *Kandemir Sport Club, Mersin-Turkey*

2004 – 2009

- Part-time instructor teaching martial arts to various age groups.

Education

DevOps Engineering online Bootcamp

Started December 2025 - current

Full Stack .NET Core Web Development online Bootcamp

October 2020

- Covered modules including MSSQL Server 2017, C#.Net Core, Entity Framework Core 3.1, ASP.Net Core 3.1 Web APIs, and Angular.

BSc (Hons) in Software Development, University of Suffolk

2016 – 2019

- Achieved a First-Class degree.
- Key modules: Database principles & practice, advanced software development, web-based services, computer security, advanced systems & network programming, cross-platform app development.
- Dissertation: Assessing & designing Smart Systems for Bathroom Use.

MCSE (Microsoft Certified System Engineer Course), Open IT Online

2010 – 2012

Languages

Fluent in English, Kurdish, Arabic, Turkish

Volunteer Work

Developed the website for Suffolk West NHS Retirement Fellowship.

Interests

- Badminton (club-nights practice, and league matches)
- Gym
- Computers!