

JIHAD DIB, PH.D, CENG., MIET

SENIOR ENGINEERING MANAGER | IT ARCHITECT

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Highly accomplished and award-winning senior technologist bringing 10+ years of international experience that includes enterprise architecture, cloud engineering, and software delivery, along with holding professional recognition as a Chartered Engineer (CEng) as well as a PhD in Artificial Intelligence and Deep Learning. A strategic executor with a blend of academic precision, entrepreneurial success, and technical leadership, complemented by strong stakeholder management, cross-functional leadership, governance, compliance, and people leadership. Renowned for the ability to anticipate technological shifts and translate them into future-proof IT roadmaps aligned with wider organisation objectives. Experienced in leading engineering divisions through the delivery of digital transformation programmes, modernising legacy estates, and delivering Artificial Intelligence projects. Bridges the gap between cross-functional product, engineering, QA, and design teams and executive leadership, ensuring stakeholder alignment, and the successful delivery of strategic projects.

SKILLS OVERVIEW

Executive Technology Leadership	Digital & Business Transformation	Enterprise Database Management
Commercial Acumen	Strategic IT Roadmap Development	Cross-Functional Leadership
IT Infrastructure Architecture	Executive Stakeholder Engagement	Advanced Software Engineering
Agentic AI Systems	Entrepreneurial vision	Complex Problem Solving
AI Integration & Governance	Network Design & Management	End-to-End Project Delivery

SELECTED KEY ACHIEVEMENTS

- Successfully headed an engineering division as Engineering Manager to both develop and scale mission-critical enterprise SaaS systems, processing over 7 million daily transactions across the UK and the EU.
- Provided leadership in the architectural design and deployment of complex full-stack SaaS systems as Lead Full-Stack Developer, with a strategic focus on engineering and training proprietary AI models from the ground up.
- Demonstrated 9 years of progression working at Pearl Healthcare Group from rising from Systems Administrator to IT Manager / Software Development Team Lead monitoring and minimising expenditure aligned with budgets of circa £200,000.
- Successfully achieved full compliance with ISO 9001 and ISO 27001 standards by leading departmental audit programmes, strengthening governance, and mitigating operational and information security risks as a Lead Full-Stack Developer.
- Improved code quality as Engineering Manager, automated release note generation, and standardised pull request commit messages after advancing the adoption of fine-tuned Large Language Models (LLMs) across the engineering division and embedding AI-driven capabilities into development workflows.
- Applied entrepreneurial skills to setup J-Telecom, a telecoms company providing VoIP, Hosted PBX systems and Bulk SMS Services in Lebanon, translating vision into strategies resulting in achieving ambitious revenue objectives, growing to become Lebanon's leading international communications provider and mobile dealer.
- Achieved prestigious professional recognition through Chartered Engineer (CEng), along with a Ph.D. in Artificial Intelligence and Deep Learning.

CAREER SUMMARY

APCOA Parking, Engineering Manager (Uxbridge, London)	2025 to Present
- Established a positive and collaborative working environment managing the engineering division including senior and junior developers, software architects, automation testers, and technical authors, accommodated the roles and needs of the team to promote a cohesive team-based culture, maximised potential and enhanced performance. - Drove the adoption of agentic LLM models to autonomously execute coding tasks, enabling AI agents to generate production-ready Pull Requests from scratch. - Managed a technological ecosystem catering exclusively to APCOA's global operational teams. - Strategically managed an enterprise-grade Azure cloud infrastructure, architecting fully scalable, secure, and inherently fault-tolerant operational environments.	

- Developed, maintained and evolved Software as a Service ecosystems, leveraging C#, ASP.NET, Blazor, MAUI, HTML, and JavaScript, specifically engineered to support and sustain large transactional scale of over 7 million daily operations.
- Recognised as the key strategic conduit between senior stakeholders and technical teams, ensuring that requirements were translated into high-performance deliverables delivered within schedule and budget.
- Advanced the integration of fine-tuned LLMs into the development workflow, implementing these across the engineering division to resulting in improved code quality, the automation of release notes, and standardising of PR commit messages.
- Strategically delivered AI projects, engineering and implementing high-impact solutions encompassing object recognition, advanced machine learning algorithms, automated data analysis, and fuzzy logic systems.
- Transformed the organisational CI/CD pipeline and release architecture, migrating the division from fragile, manual deployments to a fully automated, containerised ecosystem leveraging Docker, advanced shell scripting, and Git version control.
- Significantly improved overall deployment efficiency by 60% and reduced post-release errors by 40%, lowering the deployment resource footprint from four senior staff over a full working day to just two personnel in a quarter of a day.
- Established absolute environment parity through simulating the live Azure ecosystem locally leveraging Nginx proxies, ACME SSL certificates, and localised databases populated with dummy data, thereby eradicating deployment conflicts and fortifying data security.
- Successfully bridged the gap between cross-functional product, QA, design, and executive leadership teams, serving as the strategic liaison to align business needs, mitigate operational risks, and resolve technical challenges.
- Developed and implemented highly structured, easily assimilable onboarding protocols and release documentation via the Azure DevOps Wiki, achieving a new developer and external contractor integration time to less than 24 hours.
- Enforced mandatory Pull Requests and strict Jira/ticket traceability within Azure DevOps, resulting in ensuring oversight and granular tracking of all codebase modifications.
- Led the integration of automated end-to-end testing frameworks via Playwright, seamlessly embedding them within an isolated branching strategy prior to validation through QA personnel, ensuring defect-free software delivery.

HumandKind Ventures, Lead Full-Stack Developer (Bristol)

2024 to 2025

- Developed solutions that catalysed business advancements, and drove the integration of advanced AI capabilities, Agile methodologies, and modern DevOps principles for rapid, reliable deployments and absolute system availability.
- Adopted Large Language Models (LLMs) across the development lifecycle, equipping the engineering team with advanced AI tools, and significantly improving codebase quality and operational efficiency through automating the generation of release notes and Pull Request commit message.
- Drove consistently high team performance through developing KPIs, leading performance and development reviews, and supporting career progression to establish a culture of continuous improvement.
- Headed a team of junior developers and developed highly structured, templated software and project documentation, improving knowledge sharing and ensuring strict adherence to architectural standards.
- Led the end-to-end design, engineering, and training of bespoke Artificial Intelligence models from scratch, for healthcare functionalities, and integrated these proprietary solutions into core enterprise systems.
- Built resilient deployment strategies and fault-tolerant mechanisms, maintaining 100% system availability and ensuring zero downtime during critical operational periods.
- Designed scalable enterprise Software as a Service solutions that utilised PHP, .NET, MySQL, TypeScript, Python, Node.js, React, React Native, Vue.js, and SLIM frameworks.
- Developed front-end interfaces as well as fluid RESTful APIs, maintaining high-performance, resilient communication between complex back-end systems and user-facing applications.
- Successfully managed and optimised the AWS cloud infrastructure, including administering EC2 instances, CloudFront distributions, Lambda functions, and integrating AWS AI services to fortify system elasticity and performance.
- Deployed automated end-to-end testing protocols utilising Playwright and PHPUnit, consistently delivering of high-quality, defect-free software.

Drink Warehouse UK, Lead Full-Stack Developer (Ramsgate, Kent)

2024 to 2025

- Provided leadership to a team of seven full-stack developers and software engineers, on the delivery of projects across on-premises, AWS and Azure environments, as well as driving Agile, DevOps and CI/CD practices to enable reliable, rapid deployments.
- Developed and monitored KPI frameworks to maximise team performance, maintain delivery momentum, and ensure alignment with strategic project milestones.
- Built and deployed multi-platform enterprise solutions including on-premise Linux environments, AWS, and Azure, PHP, .NET, SQL, MySQL, TypeScript, JavaScript, Java, Python, Node.js, React, Vue.js, Laravel, Django, CodeIgniter, and SLIM frameworks.
- Optimised resource allocation within the and delegated tasks to achieve project milestones within defined scope, time, and cost.

- Developed and implemented RESTful APIs, allowing for fluid front-end to back-end communication and enhancing both system responsiveness and scalability.
- Developed system integrations with Dynamics 365 and PostgreSQL, resulting augmenting database proficiency, data visualisation, analytical capabilities, and cross-system interoperability.
- Migrated legacy systems to Azure and AWS cloud computing platforms, strengthening infrastructure resilience, optimising performance, and delivering scalable, and elastic solution.
- Introduced and managed automated unit testing and error detection protocols utilising PHP Unit and Lambda Test, ensuring the delivery of high-quality, reliable software.
- Built Continuous Integration/Continuous Deployment (CI/CD) pipelines that automated the software development lifecycle from build to deployment, accelerating release cycles and ensuring consistent reliability through a refined feedback mechanism.
- Implemented Docker containerisation, which streamlined deployment workflows and ensured uniform runtime environments across all stages of development, enhancing application portability and scalability.
- Led the integration of Microsoft AI and Machine Learning capabilities, improving advanced data engineering and management practices.

Pearl Healthcare Group, IT Manager / Software Development Team Lead (Canterbury)

2015 to 2024

- Progressed from Systems Administrator to Manager / Software Development Team Lead, leading a team of 20 managing critical IT infrastructure security, reliability, and resilience.
- Delivered back-office systems using C/C++, Python, PHP, .NET, MSSQL, Node.js, React, and JavaScript.
- Developed and implemented process automation solutions, implementing a suite of back-office systems, including petty cash management, attendance, and RFID access control.
- Introduced and integrated Agile Scrum principles, creating culture of iterative development and improving synergy within development teams.
- Led IT asset management and procurement, complying with budgetary objectives and negotiating with suppliers.
- Responded to COVID-19 through leading the procurement and allocation of assets to enable remote working with minimal disruption to business operations.
- Built and deployed Continuous Integration/Continuous Deployment (CI/CD) pipelines, automating build, test, and deployment processes to accelerate delivery cycles and strengthen system reliability.
- Managed cybersecurity, data protection, and incident response, safeguarding the integrity of information assets and IT infrastructure.
- Developed and implemented IT protocols and Standard Operating Procedures (SOPs) aligned with performance metrics, including Service Level Agreements (SLAs)

J-Telecom, Founder (Tripoli, Lebanon)

2013 to 2023

- Founded, led and successfully grew the company to become Lebanon's leading international communications provider and mobile dealer.
- Implemented and configured gateway systems including Asterisk, FreeSWITCH, VoIP Switch, and proprietary SMS gateway.
- Deployed virtual PBX for customers with smart routing functions and error handling.
- Managed network administration, database management and IT infrastructure optimisation, while managing the setup and administration of VoIP phones and cloud AI-based IVR systems.

EARLIER CAREER SUMMARY

University of Kent, Canterbury, Demonstrator (2019 to 2023)

University of Kent, Canterbury, Academic Peer Mentor (2016 to 2018)

Books2Africa UK, Dover, Logistics Assistant (2015)

Ammar Electronics, Tripoli, Lebanon, Administrator (2014)

ALFA Telecommunications, Beirut, Lebanon, Radio and Network Planning Unit Assistant (2013)

Touch Telecommunications, Beirut, Lebanon, Network Planning Unit Assistant (2012)

EDUCATION & PROFESSIONAL DEVELOPMENT

2018 to 2024: University of Kent. Doctor in Philosophy (PhD) Electronic Engineering (AI and Deep Learning) – Fully Funded Studentship

2015 to 2018: University of Kent. Bachelor in Computer Systems Engineering - First Class Honours

Key projects include:

AI-Based Socially-Assistive Robotics (ABSAR): smart positive/negative obstacle avoiding wheelchair (funded by Engineering and Physical Sciences Research Council (EPSRC)).
Real Smart Home (RSH) with Machine Learning (Multiprotocol and Multiplatform System).
Robotics Project: advanced line follower (The Beast).
Smart Collision Avoidant Wheelchair (SCAW)

PROFESSIONAL DEVELOPMENT & AFFILIATIONS

Image Processing and Biometric Security | Computer Security and Cryptography | Embedded Systems Design
PCB Design and Implementation | Digital Systems Design | Database Systems | VHDL Programming | Software Engineering
COE Application (Mobile Programming) | Artificial Intelligence (AI) | Large Language Models (LLM) | Machine Learning (ML) | Deep Learning (DL)

Chartered Engineer, Engineering Council (EC) | Member, Institute of Electrical and Electronics Engineers (IEEE) | Member, Institute of Engineering and Technology (IET) | Member, Internet Society (ISOC)

TECHNICAL SKILLS

Programming: C/C++/C#, Python, PHP, SQL, MYSQL, Vue.JS, React, Django, Node.JS HTML, JAVA, .Net Core, ASP.NET, Laravel, CSS, TypeScript, JavaScript, Assembly, AI, Machine Learning, LLMs, VHDL, RESTful APIs, Unit Testing, SOLID Principles

Containerisation & Deployment: Docker, CI/CD Pipelines

Agile Methodologies: Agile Scrum

Operating Systems: Windows Server, LINUX, Ubuntu, Debian, Raspbian and MacOS

Cloud & Administration: Microsoft Office Suite, Azure Cloud Computing, Microsoft365/SharePoint, PowerBI, Dynamics365

Hardware & Embedded Systems: Intel Quartus Prime (FPGA Design), PADS PCB Design, EAGLE Electronic Design Automation (EDA), Embedded Systems, Microprocessors, RFID Systems, Raspberry PI

Modelling: SPICE Analog Electronic Circuit Simulator, Simulink (MATLAB Modelling and Simulation), TINA-TI

Other: Cryptography, Network Security, Wolfram Mathematica, AutoCAD

ADDITIONAL INFORMATION

Publications: <https://www.researchgate.net/profile/J-Dib>

Languages: Fluent English, French and Arabic