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UK Citizen

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Technical Architect
Senior Developer | Full Stack

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Profile

A seasoned software engineer and technical architect with 20 years of experience in delivering innovative and robust software solutions. With a deep understanding of software development and a hands-on approach, I have successfully delivered numerous enterprise and Greenfield projects.

I am committed to writing clean, testable and maintainable code by applying modern coding standards and best practices. I stay up-to-date with the latest developments in software engineering and continually improve my skills in order to stay at the forefront of my field.

In addition to my technical expertise, I have good leadership and communication skills which allows me to mentor and coach both junior developers and high-performing teams. I work well in either a team or individual setting.

I am now seeking a challenging and dynamic role where I can leverage my skills, experience and passion to drive technical excellence and make a meaningful impact while also keep growing as a technical expert.

Technical Proficiencies

- Languages: C# (20+ yrs) | TypeScript (5 yrs) | Python (5 yrs) | Javascript (10 yrs) & good knowledge of others.
- Web Technologies: HTML5 | CSS3 | Angular (8 yrs) | React (5 yrs)
- Databases: SQL Server | MySql | Postgres | BigQuery
- Architecture: SOLID | OOP | Good design patterns & principles | Dependency Injection
- DevOps: TeamCity | Jenkins | Docker | Kubernetes
- Methodologies: Agile | SCRUM | XP
- Integration | Automation | Optimization | Algorithms | Neural networks | Machine learning

Key skills

- Good communicator (both technical and non-technical) with good interpersonal relations
- Good team leading skills but also able to work in a team or autonomously
- Excellent problem solver, highly analytical and logical with a strong academic background
- Ability to understand highly complex systems quickly and effectively
- Meticulous attention to detail in creating highly intuitive and innovative solutions
- Passionate & self-motivated with a thirst for learning new skills & technologies independently
- Dedicated to creating a positive work environment and streamlined processes to ensure optimal results and minimum regression
- Strong commitment to producing clean, testable and maintainable code

Education

- Bachelor of Science
  (Physics & Computer Science)

- Bachelor of Engineering
  (Electronic Engineering)

Hobbies and Interests

Reading, movies, traveling, camping, motorcycling, surfing, running, football, rugby and chess.

Work Experience

Nov 2018 – Sept 2023	HSBC (London)	www.hsbc.co.uk
Description	HSBC is one of the largest global banking and financial institutions in the world and serves over 40 million customers worldwide which covers 63 countries
Role	Cloud Architect & Lead developer

Responsibilities	• Design, development and delivery of a Greenfield:
	   o workflow orchestration & execution engine and
	   o workflow management web application
	• Leading, coaching and mentoring a team of 10 developers
	• Creating a DevOps pipeline using GIT, Jenkins, Docker and Kubernetes

Achievements	• The workflow orchestration & execution engine has proven to be highly performing and has become an integral part of the bank to execute their workflows efficiently in order to produce time-critical regulatory reports on a daily basis • The workflow management web application has revolutionized the work processes of cross-functional teams by making complex configuration and management tasks a breeze, resulting in a significant simplification of their daily work routines
Technologies	Python | C# | .NET | Web API | Angular | EF | Jenkins | Kubernetes Google Cloud (GCP): BigQuery | CloudStorage | Dataproc | Pub/Sub | StackDriver Azure: Synapse SQL | Blob Storage | Service Bus | Monitor AWS: Redshift | S3 | Kenesis | CloudWatch

Nov 2015 - Oct 2018	Investec Bank PLC (London)	www.investec.co.uk
Description	Investec is a global specialist banking and asset management group, offering a range of tailored financial solutions to clients across multiple industries and geographies. I was one of three developers working on a series of new and innovative Fintech products
Role	Senior Developer
Responsibilities	I was part of a team of only 3 developers. My responsibilities included: • DevOps pipeline: (Stash, TeamCity, Octopus, Docker, Selenium) • Development: Integrations with Equifax, Dow Jones, Companies House, Sira, Internal banking systems, Bing Search, Twilio, Mixpanel, Ideal Postcodes, Accounting packages: (QuickBooks, ClearBooks, KashFlow, Sage, Xero) • Application security, policies, roles, encryption • Decentralised auditing, logging, tracking and analytics • Background services, remote procedure calls
Achievements	We delivered the following 3 FinTech products (within a 2 year timeline): • FX payments web application • Banking 4 Business web application (a rewrite of an existing application) • Options Pricing, Strategy and Analytics Tool for the bank consultants We have also implemented a fully automated screening and on-boarding process, which allowed completely new customers to sign up within just 4 minutes (Identity checks, fraud checks, credit checks, UBOs calculation etc.)
Technologies	C# 7.0 | .Net Core 2.0 | Web API 2 | Angular | React | Redux | MobX | RPC | EF Core 2 | SQL | OWIN | OAUTH | SSO | Active Directory | multithreading

Aug 2015 – Sep 2015	Unified Logic (London) | www.unifiedlogic.com
Description	Unified Logic is a London-based audit consultancy that specializes in calculating volume licensing for large corporate clients with over 5000 devices
Role	Senior Developer
Responsibilities	• Building an application to automate licensing calculations for Microsoft products, with a hard 6-week deadline. • Design and development of an Angular web application and Web API, which seamlessly integrates with their existing systems and be deployed on Azure.
Achievements	Successfully delivered the solution within the 6-week deadline, meeting the client's requirements while maintaining a high level of quality. The application improved the overall efficiency and automation of the client's volume licensing calculations. As a result of the success of the product "Movere", Microsoft acquired the product.
Technologies	C# 6.0 | Web API | AngularJS | SpecFlow | EF | Postgres | Azure | OAUTH

Jan 2015 – Jul 2015	Reed Exhibitions (London) | www.reedexpo.com
Description	Reed Exhibitions is a leading events and exhibitions organizer that delivers innovative and high-quality events to a global audience
Role	Software Architect
Responsibilities	• Provided consultation to improve the general performance of the client's exhibition platform in several areas
Achievements	• Successfully built and implemented a RabbitMQ caching module, resulting in a significant improvement in the platform's overall performance • Enabled multi-threading of the application and its services, which enhanced scalability and improved user experience • Identified and resolved issues with third-party libraries, which minimized system downtime and improved reliability • Contributed to improving the codebase via refactoring, resulting in better maintainability and reduced technical debt • Prototyped new features and provided technical guidance to developers
Technologies	C# | Web API | MVC | AngularJS | SpecFlow | EF | AutoFac | SQL | Azure | AWS

Oct 2014 – Dec 2014	The London Clinic (London) | thelondonclinic.co.uk
Description	The London Clinic is a leading independent hospital offering world-class patient care and treatment across multiple medical specialties.
Role	Software Architect / Consultant

Responsibilities	• Strategic reviews and consultation on the following:
	   o Codebase of 50+ applications
	   o Enterprise Architecture
	   o Software development environment (tools/continuous integration)
	   o Internal software development processes & methodologies
	• Development:
	   o Design & Development of an ESB solution

Achievements	I reviewed my client's entire codebase as part of an audit / strategic review process in order to guide and advised them on architecture, existing IT processes, policies, methodologies and. I helped recruit a small AGILE team of senior developers and lead them to setup a modern continuous development environment as well as leading and mentoring a team to rewrite my client's least maintainable application.
Technologies	C# | Web API | Entity Framework 6 | Unity | HL7 | SQL

Aug 2013 – Jul 2014	Microsoft (London)	www.microsoft.com
Description	Microsoft is a global technology leader, driving innovation and empowering individuals and organizations worldwide.
Role	Senior Developer
Responsibilities	• Design, development and delivery of a greenfield KPI reporting platform which automatically collects KPIs to provide on-demand business insights to the directors • Reporting to the director of engineering
Achievements	I delivered a fully automated KPI metric platform, service and frontend which now provides weekly business insight to Skype (the client). The application is being used by the board of directors to define metrics, targets and driver initiatives which calculates and monitors forecasts and performance for planning and reporting purposes. The platform is highly extensible and customisable which allow them to easily add new modules for any additional data sources that they require to monitor. This brings both automated and on-demand business insight to the directors.
Technologies	C#	MVC 5	RAZOR 3	JQuery	AngularJS	Web API 2	HTML5/CSS3	Entity Framework 6	Azure	Irony	Antlr	NPOI	OpenXML	ClosedXML	Hadoop	SQL Server 2014	MongoDb	GreenPlum	PostgreSQL	Twitter	Facebook	Sprinklr	SharePoint	Excel	Word	Adobe Omniture	JIRA	Active Directory

Jun 2012 – Jun 2013	Newton Europe (London)	www.newtoneurope.com
Description	Consultancy firm delivering innovative solutions and services
Role	Technical Architect / Lead Developer (team of 4)

Responsibilities	• Setting up an office, software development & continuous integration environment, advocating the agile methodology, development standards & best practises and recruiting a team of developers
	• Full life cycle development of a Greenfield enterprise application that:
	  o Streamlines and optimizes the in-patient experience by minimizing the time patients spend in the hospital.
	  o Its primary goal is to ensure that patients are efficiently managed throughout their stay and that resources, such as operation theatres are used optimally
	  o Accomplishes this by coordinating various aspects of the patient's care, including scheduling appointments, tracking patient movements, and ensuring that all necessary medical personnel are available when needed.
	  o Provides real-time updates on patient status, allowing staff to anticipate and quickly address any potential issues
	  o HL7 Integration
	• Consultation, stake holders / customer facing, analysis, requirements, high level / detailed UML designs, documentation, use cases, user stories, prototyping and presentations
	• Recommendations, problem solving, performance optimization

Achievements	• I lead and mentored an agile team to deliver this enterprise application which consists of a variety of modules, including Length of Stay, Performance Tracker and Accident & Emergency • This project was shortlisted for the HSJ award and is currently being used in 4 hospitals (Hillingdon, Royal Wolverhampton & Portsmouth Hospital)
Technologies	C#	ASP.Net MVC	RAZOR	Web API	JQuery	Knockout	FE 4.1	HTML5/CSS3	WCF	MSMQ	Active Directory

Jan 2012 – Jun 2012	Travelling through Asia
5 Months backpacking through Asia (Thailand, Laos, Vietnam and Cambodia) while experimenting building an automated trading platform based on neuro-evolution using genetic algorithms (NEAT)	

Jul 2009 – Dec 2011	Public Health England (London) www.hpa.org.uk
Description	National public health agency responsible for protecting and improving the health and wellbeing of people in England
Role	Technical Architect / Lead Developer
Responsibilities	• Full life cycle development of 3 large Greenfield projects (5000+ users) • Consultation, Stake holders / Customer Facing, Requirements • Analysis, UML designs, documentation, presentations, problem solving • Architecture / Design • SOLID OO design, Design Patterns, ensuring separation of concerns • Continuous Integration (Cruise Control) • Performance Optimization (Ants Profiler, Fiddler, SQL Profiler) • Project Management, Team leading & Lead developer
Achievements	I delivered a variety of surveillance web applications which are being used today by the majority of UK hospitals & clinics to reporting anonymous statistics to the government. The various applications monitor cases of STIs and generate statistical reports for regional analysis and budget planning. Database migration of approx. 450 million patient episode records.
Technologies	C#	ASP.Net 4.0	MVC 3	RAZOR	WPF	TDD	JavaScript	LINQ	JQuery TDD	nUnit	Watir

Feb 2009 – Jun 2009	National Health Service (London) www.nhs.uk
Description	The publicly funded healthcare system in the United Kingdom, providing comprehensive and accessible healthcare services to all
Role	Senior Developer
Responsibilities	• Architecture, Design & Development of a document management system • Greenfield project, requirement taking, designs, documentation
Achievements	Delivered a bespoke document management software solution (CMS) for hospitals, which integrates with NICE guidelines (National Institute for Clinical Effectiveness).
Technologies	C#	ASP.Net	MVC	JQuery/JavaScript	Silverlight	CSS	Visual Studio	IIS

Mar 2007 – Dec 2008	Health Protection Agency (London) www.hpa.org.uk
Description	National public health agency responsible for protecting and improving the health and wellbeing of people in England
Role	Technical Architect & Lead Developer
Responsibilities	• Architecture, Design & Development of 2 large Greenfield projects • Project management • Development, team leading and mentoring • Database migration of 600,000+ patient records
Achievements	Delivered a surveillance web application for UK hospitals (private and NHS) to supply data to the Health Protection Agency. The surveillance applications monitor operation related surgical infections and cases of reported Tuberculosis in the UK.
Technologies	C#, ASP.Net, JavaScript, Soap Web Services, IIS.

Aug 2006 – Feb 2007	Eagle GL (London) www.eaglegl.com
Role	Senior Developer

Aug 2004 – Jun 2006	BAE / Unilever (Port Sunlight) baesystems.com
Role	Consultant for BEA Systems at the following client sites: • **Unilever** (Port Sunlight) | Mar 2006 – Jun 2006 • **Kingston Communications** (Hull) | Feb 2006 – Mar 2006 • **Centrica** (Staines) | Aug 2004 – July 2005

Aug 2002 – July 2004	MPS Group International (London)
Role	Analyst / Junior Developer

Jan 2001 – Mar 2002	National Accelerator Centre
Role	Junior Developer

References	
Available on request	