BRAD ARNST

A Pragmatic Architect. An Engineering Leader.

Enterprise Technology Architect. Engineering / Technical Leader.

Guide and transform strategies and technical direction; devise optimal architectures and designs; accelerate digital transformation and integration. Lead and shape teams to excellence.

Proficient in architecture, design, transformation and strategy. Motivate, mentor, and unite teams to produce their best. Broad and extensive experience: hands-on, leadership, design, enterprise architecture, operations, management, agile methodologies and ways of working. Uses best practices, but not at the expense of pragmatism, imagination and creativity. Experienced in diverse industries and products—using a variety of approaches, platforms, systems and frameworks. Business experience with startups, established companies and multi-national enterprises, globally throughout North America, South America, Europe, and Asia-Pacific.

CONTACT

Email
Phone
SMS
London, UK

PROFESSIONAL EXPERIENCE

Principal Consultant
Buildit @ Wipro Digital — London, UK | Sep 2018 - Present

As a **Principal Consultant** for Buildit @ Wipro Digital, consulted internalliy and externally as an Enterprise Technology Architect and Engineering Manager. Buildit is a talented, highly-performing team within Wipro Digital.

As **Enterprise Architect** responsible for architecture, strategy and digitial transformation consults for clients and within Buildit. Areas of responsibilities include: API strategy, digital transformation, enterprise integration, cloud strategy/architecture, devops, digital transformation, engineering transformation and agile ways of working.

As **Engineering Manager** responsible for mentoring Buildit and Wipro Digital engineering teams, consulting on engineering transformation, cloud, API and microservices design (and best practices) with clients and within Wipro Digital. Refining and guiding ways of working, creative thinking, and modern, digital approaches.

Clients include: Lloyds Banking Group, UBS, Repsol

• AWS • Azure • UML • Jira • devops • agile • scrum • API • REST • cloud • transformation • CI/CD pipeline • UML • serverless • Docker • Kubernetes • JAMstack • SaaS • IaC • consulting • Solution Architecture Documents • Javascript •

Principal Architect
Enterprise Blueprints — London, UK | Apr 2016 - Sep 2018

As **Consulting Principal Architect**. Enterprise Blueprints (EB) provides Strategic and Architectural IT Consultation, primarily for financial organisations.

Lead Enterprise Architect
10x (via EB) — London, UK | Dec 2017 - Sep 2018

As **Lead Enterprise Architect** responsible for architectural concepts and patterns. Primary responsibilities include API strategy, API design, API management, integration within 10x and with external services and partners. 10x and (main investor) Virgin Money were building a modern, bespoke digital banking platform using microservices architecture on AWS cloud native.

As **Interim Engineering Team Lead** was responsbile for mentoring and shaping one of the feature teams into an engineering team responsible for all

APIs and integration for 10x

· enterprise architecture · solutions architecture · design · integration architecture · microservices architecture · API design · API strategy · NoSQL data modelling · platform architecture · OpenAPI/Swagger · API security · Apigee Edge · Amazon AWS · OpenID/OAuth · UML · Spring Java microservices · linkerd service mesh ·

Enterprise Programme Architect
Nationwide (via EB) — Swindon, UK | Apr 2016 - Oct 2017

As **Enterprise Programme Architect** responsible for architectural concepts and patterns for API Enablement and Open Banking. ensuring the architecture aligned with Nationwide's enterprise architecture roadmaps. Responsibilities included: DevOps and testing architecture; best practice for employing APIs; API SDLC, cloud standards (Azure). Solutions Architect for a tactical, API project that had severe time pressure, due to regulatory mandates. Designed and implemented a cloud API platform, designed APIs, data stores, applications, security, operations and support model.

· API platform design · test platform architecture · vendor management · Dev Ops platform architecture · API SDLC · API security · Apigee Edge · Microsoft Azure ·

Lead Architect & Engineering Manager
Gresham Computing — London, UK | 2015 - 2016

As **Lead Architect** and **Engineering Manager** responsible for engineering management, overall architecture and design, API design, data modeling, integration architecture and design, AWS design, test approach, and devops. The product was a greenfield, bespoke web-application; designed for a commercial loan administration company. Hired, guided, and mentored the cross-functional team responsbile for the bespoke application. The product design was: micro-services architecture, SPA, RESTful, (mostly) serverless, in an AWS cloud environment.

· requirements · analysis · Swagger · NoSQL data modelling · Elasticsearch · AWS Lambda (Java) · integration (messaging) design · federated identity management · SPA (AngularJS, HTML5) · AWS · estimates · hiring · customer engagement ·

Solution Architect
Health Shared Services BC — Vancouver, Canada | 2015

As **Solution Architect** primarily was responsible for Solution Architecture,

• architecture & design • requirements gathering & analysis • lead design meetings • high-level & detailed design documents • direct Tech Analysts • delivery reviews with Portfolio & Project Managers • internal architectural initiatives • project/design reviews • project implementation estimates •

Enterprise Architect
KiwiRail — Auckland, New Zealand | 2013 - 2014

As **Enterprise Architect** provided enterprise architecture, strategy, planning, continuous improvement, design and delivery of solutions. Collaborated with KiwiRail IT architects on life cycle planning, architectural principles, policies and standards. Architected for change.

As **Lead Architect** and **Technical Lead** on a $25M+ multi-year, programme transitioning KiwiRail Freight legacy systems to a bespoke architecture. Responsibilities: architecture and design of an event-driven, SOA for operations, booking, billing, invoicing, analytics, workflow, task management, logistics, platforms and SSO. Helped shape and guide the technical team, hiring where necessary and directed many vendor resources.

The programme included: custom development, integration services, platform selection, web, app servers, document storage, security, workflow, rules, graph and NoSQL databases, search, event recording, analytics, audit and infrastructure. Key activities and deliverables include: Design, Architecture, Implementation Planning, Strategy, and Documentation.

• REST • Spring Framework • TDD • DevOps • git • maven • Jenkins • Tomcat • Mulesoft integration: • EAI patterns • UML • Sparx EA • SSO • AD • analytics • CouchDB, Elasticsearch • graphdb/Neo4J • SaaS workflow • VMWare • GoPivotal • Linux • custom SAP Billing • SharePoint architecture • TOGAF • UML •

Solutions Architect
EDF Energy — London, UK | 2012 - 2013

As **Solutions Architect** primarily responsible for project delivery, architecture and design. Also responsible for Enterprise Architecture within B2C, aligning with EDF as a whole. Developed the Solution Architect Roadmap template.Developed technology and strategic roadmaps for various business objectives, technologies, and BAU. Developed an analytic tool for dynamically displaying maturity and confidence for roadmaps, programmes and projects.

• BI • Analytics • Big Data architecture: SAP, & smart-meter data sources• Hadoop with SAP HANA • SharePoint architecture and build • BI & Analytics SaaS • SOA • SAP – Billing Finance CRM • Pricing • Metering & MOP • Reporting • Digital •

Telephony • TOGAF

Senior Infrastructure Architect
HP — London, UK | 2012

As **Senior Infrastructure Architect** for HP, for their BP account, responsible for Data Centre Services (DCS) Architecture at the Global Data Centre Operations/ Solutions located in BP Data Centres.

• servers • mid-range • database • web-hosting • middleware • storage • backup • requirements gathering & analysis • governance • high-level & detailed design • QA •

Enterprise Solutions Architect
Xchanging — London, UK | 2010 - 2012

As **Enterprise Solutions Architect** responsible for solutions architecture throughout Xchanging and to external customers; consulting for internal and external business clients; Enterprise Architecture. Primary resource for all security architecture. Developed the solution for a standard desktop for offshore, near-shore and internal employees using hybrid cloud systems. Designed a solution for a SharePoint front-end to provide app delivery, hosting and remote management for offshore and onshore users.

• requirements gathering & analysis • proposals • solution design & documentation • Wintel • Mainframe • Mid-range • Networking • remote desktop (Citrix) • end-user computing platform design • strategic & technical roadmaps • private & hybrid cloud strategy •

Enterprise Solutions Architect
Husky Energy — Calgary, Canada | 2008 - 2009

As **Enterprise Solutions Architect** for the Enterprise Architecture Team responsible for developing technical roadmaps for Husky's entire systems infrastructure. Developed the architecture and implementation plan to migrate from Novell systems to Microsoft systems. Developed integration standards for web/SAP (NetWeaver, PI & XI)

• TOGAF • ARIS • SharePoint •

Enterprise Architect
FortisAlberta Inc. — Calgary, Canada | 2007 - 2008

As **Enterprise Architect** responsible for developing Fortis Alberta's enterprise architecture and solution architecture for major projects. Developed technology and security roadmaps, ensuring all were aligned with business vision and objectives

• AD • security • content-filtering • DR data centre design • virtualization • web server • storage • database consolidation • SQL Server • Oracle RAC • HA & clustering • Citrix Access Gateway • remote access • WAN optimization • server consolidation • SAP • web services integration: BizTalk, NetWeaver & MQSeries • partner network rationalization • SharePoint • TOGAF • ARIS •

Web/Middleware Architect
Petro-Canada — Calgary, Canada | 2006 - 2007

As **Web/Middleware Architect** responsible for analyzing, architecting, designing and planning of web, middleware and security within Petro-Canada. Directed technical personnel to ensure web and middleware platforms and services met high standards of performance and reliability. Developed and implemented security architecture for web and middleware: multi-factor authentication, reduced sign-on, PCI compliance, SSL certificate authority and deployment. Designs and implementations were directly responsible for savings of over $650K in one year.

• security policies • PCI • F5 • SSL VPN • public/retail web • DNS • proxy • load balancers • Oracle Grid Control • Oracle Application Server • Tomcat • Sun Identity Manager with AD, Radius & RSA • web portal • RSA SecurID • SharePoint • web HA • monitoring & reporting •

Senior Technical Architect
NETeller — Calgary, Canada | 2005 - 2006

As **Senior Technical Architect** responsible for analyzing, architecting, designing, and planning technical systems and security within NETeller. As senior technical resource was responsible for mentoring systems personnel. Developed technology and security roadmaps.

• AD • security • encryption • auditing • storage • SMTP gateway • Exchange • archiving • IIS • Apache • JBOSS • TomCat • JRockit • Blackberry BES • monitoring • ITIL •

Web/Middleware Architect
Burlington Resources — Calgary, Canada | 2004 - 2005

As **Web/Middleware Architect** responsible for analyzing, designing, securing and optimizing web and multi-tier applications for the Data Management group within Burlington.

• IIS • ASP • .NET • Hyperion Essbase • SQL Server • Oracle • Java app servers • WebLogic • Solaris • SharePoint architecture & adoption • SharePoint integration with Crystal Reports •

Senior Technical Lead
ENMAX Corporation — Calgary, Canada | 2003 - 2004

As **Senior Technical Lead** on a large migration project—responsible for analysis, technical design and planning, technical implementation, and technical lead of the server, data, user and application moves and redeployments. Led a team of 20 from client, vendor and provider. Design, planning and implementation of data/user migration amongst data centres, networks and security: AD, NetApp, and Exchange.

· 58 applications · Oracle & SQL Server · Windows, Sun/Solaris servers · BizTalk · Exchange · clustered SQL · security-hardened shared web services ·

Senior Architect & Interim IT Manager
Foothills Pipe Lines — Calgary, Canada | 2001 - 2003

As **Senior Architect** and **Interim IT Manager** developed and refined architecture, procedures and standards. Responsible for management of technical resources. Developed technology roadmaps.

· network · servers · desktop · apps · security · DR · Exchange · firewalls · NetApp · SMS · web · monitoring · change control · Linux · HPUX · AD · DNS · Exchange · SMTP · SQL Server · Agresso · backup ·

Director/Consultant
Nexus 7 Consulting — Canada and UK | 1996 - 2016

As Director responsible for all aspects of Nexus 7. Consultant in various technical roles.

Various Roles
Various Companies — Canada and UK | ...2001

Various Companies: In Oil and Gas, Energy, IT Consulting, and Service Provision.

Various roles: Solutions Architect, Technical Architect, Infrastructure Architect, IT Manager, Consultant.

PROJECTS

Static website CV
Static websites. Github. Markdown. Eleventy. JAMstack. Sass. AWS. CDN.

This is a static website, using Eleventy—a static website generator. It's a serverless, secure, static website. It runs on Amazon AWS, using S3 as the storage/website and Amazon CloudFront for CDN. See the README.md for more information.

SKILLS & PROFICIENCY

Professional and Personal

Architecture Strategy and Design. Experienced in a variety of architectural methods, frameworks and approaches. Experience in spearheading new strategies, developing and launching roadmaps and guideposts for the future. Always pragmatic and easily drops down to tactical approaches if and when necessary. Works with the business to help see, develop, launch and drive the business forward and gets down in the weeds to help with the details to ensure shorter term goals are met. Extensive experience in transformation, integration, architecting for change, designing for optimisation and the future; including business and technical areas. Always considers Business and Technical alignment.

Engineering Leadership. Is an empathetic, servant leader. Mentoring, guiding and motivating people. Shaping and supporting teams to be excellent and strive to produce excellence. Building, interviewing, hiring, growing teams.

Consulting and Engagement. Experienced with both internal and external (client-facing) consultation. Engaging with appropriate stakeholders or clients to negotiate or convince as necessary. Experienced engaging across the board with users, technical engineers and architects, managers and C-level executives. Often using humour or a lighter touch, but using formal approaches and accompanying documentation, presentations and talks as necessary.

Team. Collaboration. Communication. While self-driven, strives working with a team. Always engages with people and teams to be inclusive, to help ignite ideas. An effective communicator, nurtures people and teams. Builds and develops relationships across the organisation.

Creative. Pragmatic. Imaginative. Thorough. Decisive. A broad range of skills, knowledge and experience; systems thinking; and a creative, imaginative outlook with a collaborative and inclusive approach ensures that some of the best ideas are

brought forward. Pragmatism and decisiveness also ensures that the appropriate idea--for the situation--is acted upon.

Technical

Architecture: Enterprise, Solutions, Infrastructure, Integration, Technology, Software.

Design of cloud, systems, platforms, services, software, DevOps, web, mobile, network, testing, operations.

DevOps, infrastructure as code (IaC), delivery pipelines, CI/CD.

Docker, Kubernetes, ECS, Ansible, Terraform, Chef, Puppet, Jenkins, CircleCI, git.

Delivery/Project management, SDLC, agile methodologies and ways of working. Jira, Kanban, Trello, Slack(integration).

Design/Architecture documentation. UML, UML diagrams as code (PlantUML, etc.), Sparx, Visual Paradigm.

Microservices architecure/patterns, API First, REST, event-driven, domain driven design.

Data modeling, database design, SQL, NoSQL, graph, document-oriented, JSON, storage, data cache, data streaming, data migration, ETL.

API: strategy, design, modeling, management, SDLC, best practice, API First, Swagger, OpenAPI.

API Gateway/Management: Apigee, Mulesoft, 3scale, AWS, Kong.

Integration, Enterprise Integration Patterns, messaging, message queues, data streams, ESB.

Messaging, JMS, AMQP, MQ, Kafka, Qpid, RabbitMQ.

Big Data, analytics, BI, search, Elasticsearch.

Cloud. AWS. Azure. Google Cloud Platform. Hybrid clouds.

Lead, architect, design: Java, .NET, web, Node.js, PHP, C++, Javascript, CSS, HTML.

Developer: front-end, full-stack, CSS, HTML, Javascript, Node.js, Python, JAMstack.

Developer tools: TDD: git, Parcel, SASS, 11ty, Metalsmith, webpack.

Security, identity management, threat detection, directory services, Active Directory, ADFS, SAML, LDAP, OAuth, OpenID Connect, RADIUS, ForgeRock, RSA SecureID, SSL/TLS, certificate management.

Non-functional. Operations, support, runtime, monitoring, backup, recovery, key management, availability, reliability, content.

EDUCATION

One year Computer Science Grande Prairie College

Technical and architecture training Microsoft, Oracle, f5

Delivering Exception Business Impact (Leadership Programme) fecund training

LANGUAGES

English (native)

French (basic)

Email Me   LinkedIn   Twitter   CV Website

Download CV (PDF)   Living in London, UK

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