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| Resume – Cheng Zeng (Brian)  Maple, ON L6A 0G3  Cell: 416-200-2718  [brianzeng@yahoo.ca](mailto:brianzeng@yahoo.ca) | |
| **Professional experience** | | | | | |
| **Profile** | Senior **Cloud Architect**/**Enterprise Architect** with ---- 28+ years extensive data center architecture, integration and implementation experience with infrastructure technologies spanning a wide range of platforms as well as emerging new technologies, with emphasis on **enterprise cloud (public and private) technology**. Years of experiences with heterogeneous Database and application environments across a variety of industries: Finance, Health, Government, Insurance, Biotech and Parma, Transportation, Manufacturing, **Public Services,** Energy and Utility**. Architecture design**, implementation and due diligence for large Dynamic Data Center and IT as a service rollout involving TCO, ROI and ITIL based process adoption and specific data storage and information management technologies. | | | | | |
| **Employer History** | **01/2005 - Present**  **Legend Consulting Inc, Canada**  **Director and Principal Consultant**   * Lead Architect – **Data Center Modernization**   Project for one of the three largest credit agencies in America, to provide technical leadership in the workforce transition knowledge transfer and/or intellectual property collection, explore AI using Microsoft CoPilot to provide enhanced efficiency of problem solving, knowledge sharing experiences. Interviewed with 50+ resources from various teams and generated knowledge base repository, e.g., IaaS, Patching-aaS, **IaC+Pipeline,** Webhosting, etc. Provided GAP analysis with Confluence based documentation, MS Share-point, MS team recorded sessions and transcripts to propose remediation risk listing and action plan.  Environments include **VMware**/**AWS**/Open-stack, GPFS, MDS9k, PowerMax, NetApp **storage**, RedHat, Commvault, using Terraform, Ansible AWX and/or Ansible Tower infrastructure automation tool along with Jenkins, Puppet, Bitbucket, Docker, K8s, EKS, AWS AVM, SCCM, etc.   * Solution Architect for a **web application development**   project to build a fan loyalty pilot web app for one NHL team. Created system/platform on AWSto integrate with client’s Avatar creation system (hosted on **AWS** account) and another fan loyalty program provided by another vendor, with **APIs** to create fan interactive rewards and redemption, co-managing FE/BE developers with full stack application development lifecycle, leveraging Git and Figma, with **.NET,** Python, Json, **JavaScript**, **CSS**, **HTML**, etc.  Lead Solution Architect for a provincial business unit’s CMS (Content management system) project, running on **Microsoft Azure** platform. Led discussion for IAM approach with the client and SMEs, along with vendor (Microsoft) to hash out deployment approach and provided technical guidance/leadership to the team throughout the PoC project.   * Cloud Architect (GCP) for Telecom Client   Lead architect delivering **CI/CD pipeline**, using CSR/GIT with Cloud build deployment for Apigee **API** platform, KVM & Target server with Apigee API Bundle to create repository and trigger Cloud build, along with Key Management services. Lead **API** developers and **DevOps** Engineers with daily stand-up discussions on technical aspects. Create Big query pipeline working along with Dialog flow to facilitate Chatbot services with Cloud Run to execute, utilizing Cloud logging to provide monitoring and reporting mechanism.   * Senior **Solution Architect - Generative AI on Google Cloud**   Solution Architect for Proof-of-concept project to demonstrate how Google Natural Language and Generative AI tools can be used to effectively answer employee questions on behalf of HR department.  Worked with 3rd party vendor to develop a Vertex AI agent on GCP, managed by GCP providing automatic scalability, to validate the effectiveness of the Generative AI technology in business process and decide if any future enhancement to operation required in production application. The Vertex AI Agent is based on Generative playbook, using Retrieval Augmented Generation(RAG) to combine both Gemini Flash 1.5 LLM and HR data embeddings as the data ingestion into Vertex datastore. AI Engine also use SAP ECC integration tool through API to fetch employee details, interact with Vertex datastore tool to retrieve HR data, then generate user responses accordingly.   * Senior **Enterprise Solution Architect**   Design, implement, support and upgrade enterprise software application and integration systems. Provide technical synopsis for project scope, roadmap and draft vendor RFP technical requirement for SAP S4/HANA conversion/upgrade project. Facilitate module upgrades project surrounding SuccessFactors and/or Employee Central, lead technical validation for downstream applications of data extraction (ETL) interfaces in and out of EC. Provide technical leadership for Data Archiving project, engaging Key/encryption integration solution from 3rd party vendor(s).   * Senior **Data Center Infrastructure Architect**   Design, implement, support and upgrade on-prem data center devices and related software in a multi customer Open Systems environment. Provide technical project management skills as required to lead upgrade activities or new implementations, data center relocation, data migration involving storage capacity planning, performance tuning, etc. Product based on various hardware vendors: EMC vMAX ,NAS, HDS, IBM, Cisco MDS, Brocade/Broadcom.  **09/2021 – 11/2023**  **Kyndryl Canada**  **Enterprise Architect (Associate Director)**   * Deliver high value transformational move/build and implementation projects to modernize client compute capabilities in the hybrid world, by leveraging the latest Cloud knowledge base and credits gained during the certification process. * Help clients build scalable modern platforms with world-class automation capabilities to maintain competitiveness and manage changing business needs, based on various platforms, from on-prem Data Center solution to cloud-based solution. * Provide insights and knowledge transfer to Account Chief Architect for roadmap discussion, by aligning account support service level commitment and providing leads for future enhancement/optimization opportunities. * Lead Architect for Anonymous Financial Service Provider - IBM Cloud migration from client’s legacy on-prem Data Center. Host technical war room discussion on daily basis among various Kyndryl tower delivery team and client’s technical architect team, responsible for program/executive level architectural governance. Lead "tiger team" with focus to drive forward resolution. * Lead Architect for one of the major financial institutes – project of Redhat Ansible Automation for Data Center Infrastructure management. Lead ARB (Architectural Review Board) with solution reviews. Provide technical guidance across tower (Kyndryl), client and Vendor (Cisco). Solution includes enterprise patching tools for in scope multiple network environments & device types by leveraging Ansible automation platform. Led discussion for technical inputs and provide requirement governance to playbook developers. Govern Ansible Automation Platform infrastructure setup and playbook code review with developers, client, and vendor right from the scratch. Fully automated patch assessments, performing pre-flight checks, patch execution and post-flight checks on managed endpoints.  |  | | --- | | **01/2016 – 09/2021**  **IBM Canada Ltd, Canada**  **Transition Transformation Integration Architect**  Provides the architectural direction and authority for the technical scope of the Transition and Transformation. Provide technical leadership for implementation based on the scope.   * Works across technical tower teams to identify and correct (via T&T processes, e.g., TSR, PCR) any delivery gaps in the solution and/or cost case that might impact the delivery of the technical solution. Establishes the account architectural governance; an IBM internal Design Authority and a client governance relationship (e.g., new, or existing ARB forum). * Reviews functional and non-functional requirements needed to develop detailed specifications and ensures that the implementation designs meet requirements Aligns the Tower and/or Service architects to the contracted solution and drives the team to deliver the architectural solution design documentation in a timely fashion * Works with the IBM, partner and vendor technical teams for the definition and delivery of the architectural designs (e.g., Architectural Solution Documents -ASDs) for all solution components. Creates an Integrated Solution Document (ISD) to provide a baseline for the transition, with key inputs from all ASDs. * Creates an Integrated Solution Document (ISD) to provide a baseline for the transition. As part of closeout, finalize and turnover the T&T architecture documents to the account team (DPE and Steady-State Architect/Chief Engineer). * Provide technical leadership to the program Represent IBM’s technical solution to the client leadership and technical peer(s) Provide technical/architectural advice and counsel to the TTIE and TTIM to enable successful execution of the Transition and Transformation * Ensure that the architecture design is consistent with the contracted solution * Review and ensure the architecture solution design meet standards such as: IBM and Client architecture standards; IBM and Client security standards to be audit-able and manageable.   **Clients worked with:**  Rogers, HCCS (Hosted Contact Centre Services) for Shared Services Canada, Government of Manitoba, EDC (Export Development Canada), Juniper, Regions Bank, Sunlife, FIS (Fidelity National Information System), DTNA (Daimler Truck North America), etc.  **Technologies involved with:**  Redhat Linux, OpenShift, Ansible, IBM Cloud VPC, **Cloud** based tooling (ScienceLogic, BigFix, Watson Chat, CloudWatch, etc.), **Network** monitoring tools (SolarWinds), **VMware,** Storage Virtualization, Spectrum Protect, Mainframe DC relocation, Mainframe zCloud migration, IaaS, PaaS, Densify, etc. | | **06/2010 - 01/2016**  **IBM Canada Ltd., Canada - Senior IT Solution Architect**  • Senior IT Architect responsible for specifying the architecture of new IT systems and infrastructure components across enterprise data centers, especially storage service line covering SO accounts throughout IBM Canada, provide technical guidance and risk management leadership role among various accounts (20+), ranging from SMB to biggest Bank/financial institutes countrywide among various industries. Environment includes a comprehensive mix of IBM/Hitachi/EMC storage devices, with Brocade/Cisco SAN, Netapp/EMC NAS, along with TSM/Netbackup, etc.  • Lead Technical Deep Dive/IBM PGL(Pre-go-live) engagement for major accounts in Canada, providing environment assessment and remediation planning, execution guidance, mentorship to delivery team. Lead Critsit response (SWAT) team composed from account storage architectures and experienced SMEs, established geographic escalation channels/point of contacts with Critical outage management process and provide overall technical governance and solution architecture guidance. Provide technical leadership role throughout the client “Hard-down”/Critsit across all accounts in Canada, deep dive storage infrastructure existing setup/configuration and provide comprehensive remediation plan and supervise/guide the execution from operational team, scope included but not limited to: Brocade/Cisco SAN fabrics; IBM/EMC/HDS backend storage arrays; Inter-site routing/backbone FC network. Etc.  • Account solution/operational architect for one local public sector financial institute with client-facing projects and on-going support engagements. Provide technical guidance for new change order and request from client, review architectural plan and work along with proposal manager to finalize solution/labor estimate. Lead infrastructural team for data center operational issue/escalation, among various delivery towers, i.e., server, storage, network, etc. | |  | | **07/2004 - 01/2005**  **Agilysys Inc (Formerly CTS Inc), United States of America - Storage Consultant**  . Provide technical consultant service to clients and help them to establish data center system infrastructure. Main focus area: HP XP48/128/256/512/1024/12000 with HP Storage Works CommandView, HDS Lightning 9900v & SUN Storedge 99x0 with HiCommand, HP EVA3000/5000 with CommandView and VCS, DP5.1, various SAN products. . Develop and enhance customer’s data center infrastructure in terms of system, storage, network integration. Provide documents to establish the daily support operational processes for system administration routine work efforts. | | **01/2004 - 06/2004**  **IBM Canada Ltd., Canada - Senior information Analyst**  . As a System Integrator Senior Information Analyst, Storage Team within IBM Toronto Lab, provide technical services under Tivoli on Demand Solution (Think Dynamic Auto Provisioning). . Implement IBM ESS (Shark) Disk Array integration with AIX 5.x, HPUX 11.x, Solaris OS 8/9. Design and implement SAN environment with Shark, Brocade & McData switches. Disk Mirroring: Knowledge of PPRC, XRC. . Linux installation, support and integration with Storage, Database, Application. | | **10/2003 - 01/2004**  **Capgemini (Formerly Inergi LP), Canada - Senior Information Systems Analyst**  . Key storage resource for a mission critical data center environment providing IT support services to HydroOne computing infrastructure. Major duties: SAN, Storage integration with SAP/PeopleSoft/Oracle; DR testing/rehearsal to validate DR plan and provide consultation services to Operation support; system backup/restore plan. | | **10/1996 - 09/2003**  **HP - Storage/UNIX Consultant**  . As a key player of deployment UNIX resource in a world-leading ERP Data center, provide project planning consultation, system deployment, HA support services on HPUX, SUN Solaris, IBM AIX mixed environment integrated with SAP, Oracle, I2, Web logic, Broad vision middleware, etc. Lead project UNIX work package team to ensure project implementation meets all requirements and milestone. .Install, configure, integrate UNIX (HPUX11.x, SUN Solaris 7/8) with Storage Area Network (SAN) and various high-end storage devices: HP XP256/48/512/128/1024 Array, Hitachi HDS 99xx Array, EMC Symmetrix Array, Brocade 3800/3900 SAN switch. .Build HA clusters with SAP/Oracle integration on HPUX11.x and MC/Service Guard, using HP high-end server (Superdome, RP8400, and RP7410), XP Disk array and brocade switches. Conduct HA tests and UAT testing and provide consultation to Operation Support team. Build Veritas Cluster on Solaris 8 and Oracle 8. i/9. i, using SUN E10K/E15k server with EMC Symmetrix Array and brocade switches. .Develop Disaster Recovery Plan for mission critical environment between 2 Data centers which are 50KM away from each other. Implement DR testing/rehearsal to validate DR plan and provide consultation services to Operation support team to ensure DR plan keep updated. | | **04/1995 - 09/1996**  **Southwestern National Telecommunication Research Institute., China**  **Programmer/Computer Software Engineer** | | | | | | | | | | | |
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| **Education** | | | | | | | |  |
| **Qualifications** | |  | | --- | | Master in Electronic Engineering | | University of Electronics & Science Technology, China, 1995 | | Thesis Title: Master, E&E, 1995 | | Bachelor in Electronic Engineering | | Fudan University, China, 1992 | | Thesis Title: Bachelor, E&E, 1992 | | | | | | |
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| **Other relevant information** | | | |  |
| **Membership in professional organizations** | |  | | --- | | Open Group Certified Architect | | Master IT Architect (CA91402)    TOGAF 9 Certified (90936)  AWS Certified Solutions Architect – Associate (Oct 2021)  Google Cloud Certified Professional Cloud Architect (Feb 2022; renewed Nov 2024)  Google Certified Professional Cloud DevOps Engineer (Apr 2024) | | | | | | | | | |