



Vinod Anand Bijlani

AI & IoT Practice Leader

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EXECUTIVE SUMMARY

- Accomplished AI, Data Science, and IoT Practice Leader with over 22 years of experience, leading complex AI and ML projects from design to implementation to support.
- Distinguished Thought Leader, with 25 patents and authorship in various publications.
- Proven ability to drive AI-based digital transformations projects on Hybrid Cloud platforms across industries; presently Lead Architect for HPE AI Ops solutions and Smart Buildings portfolio.
- Seasoned Architect with solid experience in end-to-end design and implementation:
 - Complex analytics-driven integrated command centers for 10+ cities.
 - AI-led mission critical Incident management solutions, reducing incident response time by 50%.
 - Sustainable transformations of Intelligent Buildings and Large Venues to refine experience.
- Cross-Geo Solutioning experience - Singapore, India, USA, from Server Admin to Leadership roles.
- Open Group Certified Distinguished Architect and Master IT Architect (Level 3 and Level 2).
- Core Member and Mentor – IoT Tribe Singapore, IT Standards Committee Singapore (ITSC-SG) and Intelligent Transportation Society (ITS) Singapore.

EXPERIENCE



HPE – SINGAPORE AI & IoT Practice Leader Jul 2019 – Present

- Define HPE’s AI and IoT strategy to address engagements in the APAC region, including strengthening relationships with partner ecosystems.
- Conduct Design thinking workshops to define AI-based Transformation Roadmaps for each customer.
- Lead development and GTM for key HPE Data solutions: Data Modernization, Data Ops, and AI Ops.
- Launched AI in a Box solution, which accelerates adoption of AI for enterprises.
- Conceptualized and designed Back-to-office solution – an end-to-end Workspace Transformation solution from entry to exit, aimed at safeguarding employee health, improving the overall office experience, as well as reducing energy costs.
- AI and IoT Thought Leadership across HPE business units and external community.



IBM – SINGAPORE Executive Architect – Smarter Cities Aug 2015 – Jul 2019

- Responsible for driving Asia Pacific Lab Services engagements for Smarter Cities and Safer Planet.
- Directed and executed Fusion Analytics for Public Transport Emergency (FASTER) project for improving Singapore’s MRT services, providing optimized response plans for transit incidents. This solution reduces the impact of an incident in terms of the passenger travel by over 100%.
- Designed and implemented Decision Control (DECON) for Singapore LTA, optimizing traffic flow and safety based on real-time situations and predictions from incident detection and response.
- Designed and implemented a flood forecast and early warning system for Jabatan Pengairan dan Saliran – JPS Malaysia, which provides a warning 3-7 days in advance.



IBM – INDIA Chief Product Architect – Smarter Cities Jan 2009 - Aug 2015

- Led architecture and design of core components for IBM Intelligent Operations Center for Transportation - Traffic Device Management, Highway Management, Traffic and Bus Arrival Prediction, and Data Expansion.
- Collaborated with Product Management team to define the product roadmap and release strategy for Transportation component of IBM Intelligent Operations Center.
- Led Product Delivery team comprising 30 developers and testers across US, India, and Ireland.
- Designed and implemented next generation machine learning based Traffic Command Center for the world's most heavily traveled and busiest highway in the United States – New Jersey Turnpike.
- Drove a 150% improvement on the accuracy of estimated bus arrival times for Singapore LTA, from +/-1 minute error down to +/- 20 seconds.
- Implemented AI-based mission critical Incident management solutions to reduce the incident response time by 50% for Singapore LTA, New Jersey Turnpike, Transport for London, Chennai, Delhi Mumbai Industrial Corridor, Ahmedabad Janmarg BRTS, Davao, Bandung.





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IBM – INDIA

Solution Architect – Retail

Mar 2005 – Jan 2009

- Lead Architect for Retail Store Solutions. Led a Point-of-Sale green field product development effort supporting hypermarket, white goods, lifestyle, specialty, convenience, pharmacy and jewelry.
- Successfully led multiple large scale (100+ store) POS implementations for key IBM customers.
- Designed various self-service kiosk-based solutions - Safeway Food Services Kiosk, Cingular Kiosk Monitoring, Croma Woolworths Guided Selling Kiosk.



KROGER RETAIL – US

Infrastructure Architect

Dec 2003 – Mar 2005

- Defined system architecture, hardware layout, capacity planning, project planning, build, implementation, deployment, and tuning of all the Web and Store-based applications.
- Led team of 8 engineers working on J2EE App Builds/Deployments, Wintel deployments, ETL projects, BI/Reporting projects. Led various server virtualization initiatives and server consolidation efforts.
- Designed and implemented a Unified Deployment solution for orchestration and automation of deployment process leading to 75% savings in time.



NORTHWESTERN MUTUAL | CITIBANK – US

Administrator

Dec 2000 – Dec 2003

- NorthWestern Mutual Insurance - Responsible for large-scale Middleware migration to reduce costs by over 50% and increase agility. Automated migration and maintenance via scripting.
- Citibank Private Banking - Implemented content management system for Citibank Private banking Site – Ecare to improve customer experience and loyalty.



GAMCOM | KVAERNER – INDIA

Developer

Jun 1998 – Nov 2000

- Gamcom - Lead Developer for City Fruits UK website - frontend and backend eCommerce platform.
- Kvaerner - Developer for web-based intranet application for Chemical Plant designs.

PATENTS, PUBLICATIONS AND GIVEBACK



- 25 file rated disclosures, with two recognized as ‘High Value’ Patents. For Patent details, please visit: <https://www.vinodbijlani.me/patents>
- Recognized as IBM Master Inventor in October 2015 and September 2012.
- Authored 10+ articles in various publications.
 - SG Business Times - [Smart Buildings Transformations beyond COVID](#)
 - CDO Trends - [Reimagining Airport Safety With Emerging Technologies](#)
 - Traffic Technology - [Why public transport must now enable real-time data sharing](#)
 For the complete list of articles, please visit: <https://www.vinodbijlani.me/publications>
- Actively involved in mentoring start-ups; supporting IoT Tribe Singapore, as mentor for IoT start-ups.
- Presented at various Smart Buildings and Smart Cities conferences and events. For the complete list of presentations and details, please visit: <https://www.vinodbijlani.me/speaking>.
- Collaborated with IoT experts for IMDA Singapore to co-author technical reference (TR) 69 : 2019 – [Video analytics within video surveillance systems – reference architecture and interoperability](#).
- Engaged with aspiring data scientists and developers as Judge for hackathons - Code xtremeapps for Better World by IMDA and [AI in Healthcare](#) by NUS.

EDUCATION AND CERTIFICATION

- Bachelor of Engineering (Chemical Engineering) – University of Mumbai, India - 1998
- Post Graduate Program in AI for Leaders – University of Texas, Austin
- IoT: Business Implications and Opportunities - Massachusetts Institute of Technology MIT Sloan
- AI in Business: Creating Value with Machine Learning - Harvard Extension School
- Smart Cities : Integrated Urban Transport Planning Course - World Bank
- Architect Certification - Open Group Certified Distinguished IT Architect, Open Group Master Certified IT Architect & IBM Senior Certified Architect - Level 3 Thought Leader
- Cloud Certifications - IBM Certified Cloud Solution Advisor & Azure Certified AI Solution Advisor

