

# Vinod Anand Bijlani

#### AI & IoT Practice Leader

| +65-90527802 | www.vinodbijlani.me | vinodbijlani@gmail.com |



## **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:
  - o Complex analytics-driven integrated command centers for 10+ cities.
  - o AI-led mission critical Incident management solutions, reducing incident response time by 50%.
  - o 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**

Hewlett Packard Enterprise

#### **HPE - SINGAPORE**

#### AI & IoT Practice Leader

Iul 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 <u>AI in a Box</u> solution, which accelerates adoption of AI for enterprises.
- Conceptualized and designed Back-to-office solution an <u>end-to-end Workspace Transformation</u> <u>solution</u> 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 <u>Fusion Analytics for Public Transport Emergency (FASTER)</u> project for
- Directed and executed <u>Fusion Analytics for Public Transport Emergency (FASTER)</u> project for improving Singapore's MRT services, <u>providing optimized response plans</u> for transit incidents. This solution <u>reduces the impact of an incident in terms of the passenger travel by over 100%</u>.
- Designed and implemented <u>Decision Control (DECON)</u> for <u>Singapore LTA</u>, <u>optimizing traffic flow and safety</u> 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 <u>mission critical Incident management</u> solutions <u>to reduce the incident response time by 50%</u> 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 <u>multiple large scale (100+ store) POS implementations</u> 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 <u>orchestration and automation of</u> <u>deployment process leading to 75% savings in time.</u>



## NORTHWESTERN MUTUAL | CITIBANK - US

#### Administrator Dec 2000 - Dec 2003

- NorthWestern Mutual Insurance Responsible for large-scale Middleware <u>migration to reduce costs</u> 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.

## KVÆRNER\*

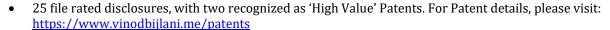
## GAMCOM | KVAERNER - INDIA

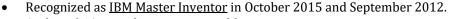
# Developer Jun 1998 - Nov 2000

- 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







• Authored 10+ articles in various publications.

- o SG Business Times <u>Smart Buildings Transformations beyond COVID</u>
- o CDO Trends Reimagining Airport Safety With Emerging Technologies
- o Traffic Technology <u>Why public transport must now enable real-time data sharing</u> For the complete list of articles, please visit: <u>https://www.vinodbijlani.me/publications</u>
- 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: <a href="https://www.vinodbijlani.me/speaking.">https://www.vinodbijlani.me/speaking.</a>
- 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 <u>AI in Healthcare</u> 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





