

# SEAN TECH

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## AWARD-WINNING ARTIFICIAL INTELLIGENCE EXPERT

ENTERPRISE ARCHITECTURE • STRATEGIC PLANNING • AI TECHNOLOGY DIRECTION • SOLUTION STRATEGY  
• MLOps BUSINESS INTELLIGENCE • PRODUCT STRATEGY • TRANSFORMATIONAL CONSULTING

### LEADER IN AI PRODUCT LIFECYCLE MANAGEMENT, INNOVATION, & APP DEVELOPMENT

With a rich 20-year career in AI and Computer Science, I am a seasoned Microsoft Partner and an innovator in R&D. I have a proven track record in building Generative AI products using GPT technology and developing Completion Engines for the private sector. My expertise extends to Human Computer Interfacing, Robotics, and Thought Strategy, with a teaching stint at the University of California on the fusion of human thought and movement in AI.

My relentless pursuit of innovation has cultivated creativity and excellence in AI-Driven Products and product management services. I have served MSMEs, large-scale Enterprises, Government Agencies, and International Organizations. My leadership style is a blend of policy shaping, PESTLE Strategies, innovation driving, and futuristic SDLC practices implementation.

I have extensive experience in enterprise-level automation technology, leading teams to identify, qualify, build consensus for, and implement innovative technologies and enterprise systems. I provide mentorship and highly technical leadership to engineering teams, solving complex business and information processing problems. I have served as a principal investigator on complex R&D intelligence initiatives requiring scientific outcomes.

I have led internationally distributed teams in ERP and implementation, working with executives and decision-makers to create scalable application architecture. I advocate for an internal team culture of expertly automated DevOps management, implementation of automation and usage of large language models, proper technical documentation, CI/CD best-practices, and treating infrastructure as code (IaC) in Government, Enterprise, and NGO sectors.

I specialize in scaling Cloud Architecture and Distributed teams for the Artificial Intelligence and Machine Learning sector with IaaS repeatable frameworks using containerization. I apply a cloud-agnostic approach for Azure, AWS, and GCP with a focus on Kafka, Scalr, Ansible, Chef, Puppet, Terraform, Docker, and Kubernetes.

## PROFESSIONAL EXPERIENCE

### GLOBAL ENTERPRISE, SAN FRANCISCO, CA – Over a Decade of Organizational Leadership

For over a decade, I have been instrumental in the strategic growth and leadership of this global consulting firm, serving a diverse array of enterprise clients. I have successfully built and managed a distributed team of over 100 consultants, leading the charge in AI DevOps solutions across various sectors including Recommendation Engines, Fintech, Agritech, and Business Intelligence.

#### SENIOR DIRECTOR OF AI ENGINEERING: 2022 - Present

As the chief strategist and technical leader for Enterprise Resource Planning & Implementation, I spearhead the technology team, nurturing an environment of mentorship, motivation, and intelligence. My role involves driving the entire SDLC driven tech stack through ITIL change management, thereby enhancing DevOps utilizing innovative forward-thinking Enterprise Cloud Architecture.

My responsibilities extend to shaping the culture, providing training, and serving as a role model for a distributed agile software team in Machine Learning, DevOps, Business Intelligence, and enterprise software

best practices. I am responsible for building teams, overseeing IT and cybersecurity, and leading the growth and innovation of tech-driven solutions.

#### **AI PRINCIPAL SOFTWARE ENGINEERING MANAGER: 2018 - 2022**

During this period, I successfully built multiple state-of-the-art products in AI, Fintech, and Recommendation Engine Solutions. I expanded our international team into 2 new countries and established Azure DevOps distributed procedures for a team of 60 developers to collaborate in real-time across multiple projects and languages, primarily Angular / React / JavaScript / AWS / Azure.

I also migrated outdated proprietary legacy development system to fully cloud-managed Microsoft and AWS frameworks, using AWS EKS and KSM or Azure Blobs, Azure Repos, and Azure Pipelines with real-time analytics delivered through PowerBI. Additionally, I created Roadmaps across Azure and Atlassian Suites for cross-functional teams and led Initiatives while mentoring other EMs on proper Agile methodologies.

#### **SENIOR AI SOFTWARE ENGINEERING MANAGER: 2015 - 2018**

In this role, I led multiple Software Development Management projects, working directly with Product Managers, Creative Directors, and Stakeholders while leading a robust team of highly trained engineers. I designed the proprietary development frameworks to enhance Business Intelligence, Business Analytics, & Creative solutions.

I led the most crucial teams to design Machine Learning algorithms and metrics to track staff and students in distributed systems, created dashboards to update dynamically and present user engagement statistics, and integrated into Microsoft Dynamics and Salesforce with Ministers of Education from multiple countries along with CTO/CIO from Fortune 500s for integration into learning systems.

#### **SENIOR ENGINEERING MANAGER: 2012 - 2015**

As a Senior Engineering Manager, I managed and mentored a large team as we developed EduTech solutions for Governments, Universities, and Enterprises. These included integrating and custom development for Digital Rights Management (DRM), MOOCs, Pedagogical Approaches in Curriculum Development, and Social Networks for faculty & students.

#### **HARDMAGIC CORPORATION, SAN FRANCISCO, CA – 10+ Years with Organization**

For over a decade, I was committed to a health-focused technology company, creating the digital presence and partnerships with the world's leading yoga instructors to create solutions for them to lead their retreats while consulting them on application development, brand identity, product strategy, UX, and media production.

#### **AI TECHNICAL LEAD: 2008 - 2012**

As the AI Technical Lead, I led a team to build an Artificial Intelligence Engine – a Virtual Assistant & AI Customer Service solution. I was responsible for creating an Omni-Channel Augmented CSR Virtual Agent experience with multipoint AI technology, API Personality Integration for SMS, VoIP, Chat, Support Ticket, Email, and Social Media, and building across C#, C++, JavaScript, Python, and other services as needed for the best user experience.

#### **SENIOR SOFTWARE DEVELOPER: 2004 - 2007**

In this role, I created a scalable Pedagogical Education Tool, a Responsive-layout, scalable MAAS + Juju code, PHP Drop-in Script, and custom-coded API Integrations with WordPress, Moodle, Resource Space, Feng Office, SMF Forum.

#### **SOFTWARE DEVELOPER: 2002 - 2004**

As a Software Developer, I provided security and technology advancements for LAMP, LEMP, and Microsoft Server Architecture, PHP Coding, API Integrations with Social Networks, Credit Card Processing, Logo Design, Digital Photography, Commercial Film Production, and Mobile App Development.

## CAREER HIGHLIGHTS

**AGILE METHODOLOGY:** Collaborated with Jon Kern, a co-author of the Agile Manifesto, to develop and implement a novel Agile Thought Leadership philosophy for the Enterprise Sector, fostering a culture of continuous improvement and innovation.

**INNOVATIVE AI PRODUCT DEVELOPMENT:** As the Principle Researcher of the A.N.D.R.O.I.D. Ops™ framework, I revolutionized the traditional Software Development Life Cycle (SDLC) methodology. This innovative approach, specifically designed for the creation of sentient androids and sophisticated Machine Learning models, streamlines product development in the AI sector. The A.N.D.R.O.I.D. Ops™ framework integrates principles of automation, networking, design, research, optimization, implementation, and delivery, thereby enhancing efficiency, scalability, and customer-centricity in AI product development.

### PRODUCT DEVELOPMENT MANAGER IN 2022 OF AWARD-WINNING AI PRODUCT: 2022

As the Product Development Manager for a leading Enterprise, I led the team that developed the award-winning AI product recognized in the 2022 Artificial Intelligence Excellence Awards. My leadership was instrumental in the successful implementation of automated reasoning capabilities that help us win in our market and drive revenue profitability.

I also played a key role in our recognition as a Leader in the 2022 Gartner Magic Quadrant for Configure, Price and Quote (CPQ) Application Suites for the second consecutive year. My focus on innovation and my ability to execute vision through products and services resulted in significant successful customer deployments in a wide variety of industries. I am proud to have contributed to the achievement of consistently above-average customer experience satisfaction scores and to have set the standard against which other Artificial Intelligent Products measure themselves.

### CTO OF AI-DRIVEN TECHSTARS STARTUP: 2021

As CTO of a 40+ member team in a Diversity, Equity, Inclusion-focused AI-driven hiring technology SaaS startup, I provided strategic leadership that culminated in a significant placement and substantial investment through the TechStars Workforce Development Program in 2021.

### AI LABS: PROCUREMENT & INFRASTRUCTURE CREATION: 2020

Established an international team of Data Scientists and constructed both a physical Dry Lab and a virtual lab environment using Azure Data Labs and Jupyter Hubs. Engaged in a collaborative partnership with an Educational Consortium which included multiple Universities and a Research Institute for SETI Research.

## RESEARCH

### SENIOR RESEARCHER, COMPUTER SCIENCE WITH RESEARCH INSTITUTE: 2016 – 2021

- Developed Augmented Reality 3D models by researching body mechanics in martial arts and ballroom dance, providing model articulation and guidelines for developers in 3D architecture.
- Contributed to interstellar research, quantum computing, and DevOps Methodologies through knowledge sharing and insights in aerospace.
- Worked with an international team of scientists and engineers to develop and study algorithms, big data, and data models, while also creating systems for data wrangling and data aggregation.
- Utilized MLOps, Q#, Python, and Business Intelligence to create predictive analysis for the advancement of science and innovative technology.

## ACADEMIA

### ADJUNCT PROFESSOR, COMPUTER SCIENCE & CREATIVE STORYTELLING, UNIVERSITY OF CALIFORNIA, SANTA BARBARA: 2005 – 2009

Conducted academic research and implementation with a focus on Human-Computer Interaction (HCI), Behavioral Engineering, and Applied Intelligence, fostering a culture of curiosity and innovation among students.

## TECHNICAL PROFICIENCY

**Database Management:** SQL, MySQL, PostgreSQL, MongoDB, Oracle Database, Microsoft SQL Server, SQLite, MariaDB, Firebase, CouchDB, Redis, Cassandra, Neo4j, InfluxDB, Elasticsearch, Hive, HBase, Teradata, DB2, SAP HANA, Informix, Sybase, dBase, FileMaker, Access

**Programming:** Java, J2EE, C#, Q#, DAX, JS, NodeJS, Nginx, Angular, Ant, React, C++, Python, Express, Koa, HTML, CSS, Ruby, Scala, Go, Swift, Kotlin, TypeScript, PHP, Rust, R, MATLAB, Perl, Shell, Groovy, Lua

**3D Modeling & Design:** Unity, Unreal Engine, Autodesk Suite, Blender, 3D Maya, 3DS Max, Revit, AutoCAD, Lumion, SketchUp, Rhino, ZBrush, Cinema 4D, SolidWorks, V-Ray, Keyshot, Substance Painter

**Creative Tools:** Adobe Creative Suite, Photoshop, Premiere Pro, Illustrator, Canon, RED, Capture One, Wacom, SMM, After Effects, Lightroom, InDesign, CorelDRAW, Final Cut Pro, DaVinci Resolve, Avid Media Composer, Sony Vegas, Procreate

**IT & Cloud:** AWS, Azure, Apache, Cassandra, Amazon SQS, Linux, Scalr, Solr, Ansible, IAM, Microservices/API, Oracle, Puppet, Chef, Flourish Studio, Hadoop, Elastic Stack, Jira, Atlassian, CosmoDB, Databricks, Google Cloud, Kubernetes, Docker, Terraform, Jenkins, Git, SVN, Mercurial, VMware, OpenStack, Cloud Foundry, Heroku, Firebase, Pivotal, OpenShift

**Low Code:** Zapier, Azure Logic Apps, PowerAutomate, AWS Step Functions, OutSystems, Mendix, Appian, Microsoft Power Apps, Zoho Creator, Quick Base, FileMaker, Bubble, AppSheet, Adalo, Betty Blocks, K2, TrackVia, Joget, Caspio

**AI & Data Science:** LLAMA, LLMs, AWS SageMaker, GPT, OpenAI, Azure AI Services, TensorFlow Extended (TFX), Keras, PyTorch, DSVM, Jupyter, Anaconda, IBM Watson API, Microsoft Cognitive Toolkit (CNTK), MidJourney, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, SciPy, NLTK, Spacy, XGBoost, LightGBM, CatBoost, H2O, RapidMiner, KNIME, DataRobot, Alteryx, Tableau, PowerBI, QlikView, Looker, D3.js

**IT Project Management:** Jupyter Hub, Google Colaboratory Azure DevOps, SharePoint, Office 365, Atlassian Suite – Jira, Confluence, BitBucket, Compass, Atlas, Jira Product Discovery, Trello, Asana, Basecamp, Monday.com, Smartsheet, Wrike, Zoho Projects, ClickUp, Podio, Workfront, Teamwork, MeisterTask, ProofHub, Notion, Freedcamp, Paymo, Harvest, Mavenlink, Pivotal Tracker, Rally, VersionOne, Targetprocess

**DevOps:** Jenkins, Docker, Kubernetes, Ansible, Puppet, Chef, Nagios, Git, Vagrant, AWS CodePipeline, Azure DevOps, Google Cloud Build, CircleCI, Travis CI, Bamboo, TeamCity, JFrog, Sonatype, Black Duck, WhiteSource, Snyk

**Virtualization:** VMware, Hyper-V, KVM, Xen, Oracle VM, Citrix Hypervisor, Proxmox VE, Nutanix AHV, OpenStack, oVirt, VirtualBox, Parallels, QEMU, Virtuozzo, Docker, LXC, OpenVZ

**Enterprise Resource Planning (ERP):** SAP, Oracle, Microsoft Dynamics, Infor, Epicor, IFS, Sage, Unit4, QAD, SYSPRO, Plex Systems, Acumatica, Deltek, Rootstock, Priority Software, Ramco Systems, ECI Software Solutions, IQMS

**Customer Relationship Management (CRM):** Salesforce, Microsoft Dynamics, Oracle, SAP, Adobe, Zoho, HubSpot, Pipedrive, Insightly, SugarCRM, Nimble, Apptivo, Capsule, Freshsales, Nutshell, Agile CRM, Vtiger, Keap, Act!

**Content Management System (CMS):** WordPress, Joomla, Drupal, Magento, Shopify, TYPO3, Squarespace, Wix, Weebly, PrestaShop, OpenCart, osCommerce, Zencart, MODX, Concrete5, DotNetNuke, Umbraco, ExpressionEngine, SilverStripe, Textpattern, RefineryCMS, Ghost