



SATYAM SWARNKAR

ACHIEVEMENTS

- 2024:** Launched Enterprise GIS Solution, 2 enterprise deployments
- 2020:** 1st Prize – AWS Hack Day Malaysia (Wildfire Detection with AI & GIS)
- 2019:** 1st Prize – AWS ASEAN Hack Day (CCTV AI Monitoring System)
- 2019:** 1st Prize – AWS Hack Day Malaysia (Smart Parking System)
- 2017:** Winner – Astro "Bring Idea" Contest (Ad Decisioning System)
- 2014:** Innovation Award – Cairn India (Virtual Pipeline GIS)
- 2009:** US Patent – Real-time Ad Insertion in Live Streaming (VDOPIA VLive 2.0)

PROFILE

Innovative and award-winning Enterprise Architect with **19+** years of expertise in building and scaling intelligent digital systems across GIS, AdTech, and AI domains. Proven record of developing enterprise-grade cloud-native solutions for high-performance environments, including oil & gas, utilities, media, and public safety sectors. Adept at leading cross-functional teams, managing product life cycles, and implementing infrastructure governance frameworks. Recognized for blending deep technical insight with strong business acumen to deliver scalable, secure, and cost-optimized platforms.

CONTACT

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GitHub :

<https://github.com/satyamsoni>

WORK AUTHORIZATION

Polish Temporary Residence Card (Valid till Feb 2028)

Eligible for Employment or B2B Contract in EU (Poland) without visa requirement.

B1/B2 US Visa (Valid till Oct 2029)

HOBBIES

Current Affairs
New AI tech

WORK EXPERIENCE

Freelance - Chief Architect/ Product owner

Jan 2023 – Until now

- ❖ Led development of **Enterprise GIS Solution**, a cloud-native, AI-augmented GIS platform for utilities and oil & gas industries. Achieved **>30% manpower** and **>70% infrastructure cost reduction**.
- ❖ Integrated advanced mapping systems (ArcGIS, QGIS, Hexagon) with a secure, GenAI-driven data query assistant.
- ❖ Architected a fully serverless, modular backend using AWS Lambda, API Gateway, and DynamoDB/PostGIS.
- ❖ Oversaw deployment across multiple clients, ensuring scalability, compliance, and automation of asset workflows.
- ❖ Developed Training System powered by **LLM + RAG** for Enterprise employee learning from enterprise records, to improve efficiency.

Petronas Digital SDN BHD, Malaysia - Head of Infrastructure – Enterprise Architecture

Sep 2021 – Oct 2022

- ❖ Directed infrastructure governance, lifecycle policy creation, and system design reviews across the enterprise.
- ❖ Architected the Enterprise Data Hub to automate data warehousing and enforce GDPR-like protections.
- ❖ Spearheaded Innovation+ product initiatives, resulting in new commercial solutions in adjacent markets.
- ❖ Managed a team of Solution Architects, delivering standards-aligned architecture and security strategies.

Astro Malaysia, Kuala Lumpur , AVP – Advertising Solutions Architect

Aug 2015 – Aug 2021

- ❖ Designed scalable AdTech platforms for linear and digital media, including RavenGate, a multi-CDN load balancer improving video reliability by 45%.
- ❖ Led full-stack engineering teams and third-party vendors.
- ❖ Delivered personalized advertising pipelines leveraging real-time user profiling and ingestion.
- ❖ Reduced OpEx by more than MYR 1M via cost-effective internal video platform architecture.

VDOPIA Media, Gurgaon, India, Engineering Manager -Solutions

Dec 2008 – Aug 2015

- ❖ Managed 16-member engineering team, launched the Rich Media Division, and scaled global revenue.
- ❖ Held product ownership for VDO (VDOPIA's proprietary player) and Omnitrix, a video encoding suite. build many Ad products.
- ❖ Led customer-facing technical engagements and integrated ad SDKs across mobile and web ecosystems.

TEDx Talks
Study market trends
Yoga
Trekking

PERSONAL

Gender : Male
Marital Status : Married
Nationality : Indian

LANGUAGE

English – Fluent
Hindi - Native

EDUCATION

Higher National Diploma (HND) Level 5
in Computing & Multimedia Edexcel
International – IGNOU, New Delhi

Earlier Roles:

- ❖ Flash Programmer – Advent Metrix Inc (2008)
- ❖ Sr. Programmer – Earth Link International (2007–2008)
- ❖ Sr. ASP Programmer – Culture Holidays (2007)
- ❖ UI Engineer/ASP Programmer – Etech Online (2006–2007)

INDUSTRY EXPERIENCE

AdTech : 12+ Years experience of building AdTech products with iab & other global standards (VAST, VPAID, MRAID, Moat etc) additionally Addressable TV Advertising, Radio Ad with behaviour and demographics hyper targeting.
Media OTT : 6+ years experience of building media encoding, OTT,Live processing/reporting/archival (complete lifecycle) systems on high traffic products.
Oil & Gas : 4+ years experience on Solving energy industry problems related to operation, asset maintenance, security, usage of latest tech stack AI/XR, GIS Mapping etc.

CORE COMPETENCIES

- ❖ **Geospatial:** GIS Mapping, Asset Tracking, QGIS, Leaflet, GeoServer, PostGIS.
- ❖ **AdTech :** VAST, VPAID, MRAID, Moat, Addressable TV , Hyper Targeting etc.
- ❖ **Cloud & DevOps:** Terraform, AWS, GCP, Cloudflare, Serverless Architectures, Infrastructure as Code, CI/CD, Cost Reduction.
- ❖ **Software Architecture:** Microservices, API Design, Event-Driven Systems, Modular Infrastructure.
- ❖ **AI & Automation:** Generative AI (OpenAI Assistant API, Amazon Q), NLP, Predictive Analytics, Chatbots, Live Stream monitoring, TensorFlow.
- ❖ **Audio/Video & Streaming:** Video Delivery Platforms, CDN Optimization, Video Encoding, Real-Time Ingestion.
- ❖ **Embedded Systems:** Set-Top Boxes, Smart TVs, IoT with GPS/LoRaWAN.
- ❖ **Leadership:** Team Management, Hiring/Upskilling, Agile Delivery, Vendor Management
- ❖ **Data Systems:** Enterprise Data Hubs, ETL Pipelines, Personal Data Protection.
- ❖ **Databases:** Postgres, MySQL, Aurora, Redis Stack, Aerospike, memcache, bigquery, dynamoDB, Spark, Milvus.
- ❖ **Programming Languages:** JavaScript (Node.js), TypeScript, Python (FastAPI, CLI, PySpark , Pandas, PyTorch etc), PHP, SQL etc.
- ❖ **Frontend :** Framework 7, React JS , Javascript, JQuery, HTML5/CSS3.
- ❖ **Tools :** PyTorch, TensorFlow, FastAPI etc.
- ❖ **AWS Products and Services:** EC2, Lambda, API Gateway, SNS, SQS, SES , Elastic Beanstalk, S3, EBS, EFS, RDS, DynamoDB, VPC, DirectConnect, Load Balancer , IAM, KMS , WAF, Athena, Rekognition, Bedrock , AWS Translate, Polly , Comprehend, Lex, CloudWatch, CloudFormation etc.
- ❖ **GCP :** Google Functions, BigQuery, Big Table etc.

