

Together we can make it possible

CASE STUDY

Awakening Vajra (AVI)

Reinvents Spiritual Learning with an AI-Assisted Mobile Platform Built on AWS and Shri Sai Tech

Executive summary

Awakening Vajra International set out to replace a scattered digital presence — a website, a video channel, newsletters and manual sign-ups — with one mobile-first learning experience where students follow courses, watch teachings and live broadcasts, discover centres and events, and give, all in one app.

Traditional delivery was fragmented and manual: content lived in disconnected places, publishing a course or event took hand-work, and there was no reliable way to reach the community when something new went live. AVI also needed an in-app assistant that could answer sensitive, personal questions safely and compassionately.

To realise this vision, AVI partnered with Shri Sai Tech (SST) to design, build and deploy the AVI Learning Platform on Amazon Web Services (AWS). Using Amazon Bedrock with Guardrails, Amazon SNS push notifications and Amazon EC2, SST delivered a cross-platform app, an admin console and an AI assistant as a production-ready proof of concept.

The challenges

- **Challenge 1 – Fragmented Digital Presence**
  Teachings, courses and events were spread across a website, a video channel and email, leaving students without one trusted place to learn and the team without one place to publish.
- **Challenge 2 – No Mobile-First Experience**
  Practitioners could not carry courses, teachings, live broadcasts and events with them, or pick up a lesson where they left off, on the device they use most.
- **Challenge 3 – Manual Content & Event Management**
  Creating and updating courses, lessons and events was manual and disconnected, with no unified console or single source of truth.
- **Challenge 4 – Timely Engagement**
  There was no dependable way to notify the community instantly — and take them straight to the content — when a new teaching or event went live.
- **Challenge 5 – Responsible AI for Sensitive Topics**
  Any assistant had to treat wellbeing questions with care — never diagnosing, always pointing to professional help.

About AVI

Awakening Vajra International is a Buddhist teaching organization making authentic Vajrayana teachings accessible to a global community through courses, teachings, live broadcasts, centres and events.

Its mission is to bring the Dharma to practitioners wherever they are — one welcoming mobile experience to follow a course, join a live teaching or find a centre.

Angie Chew

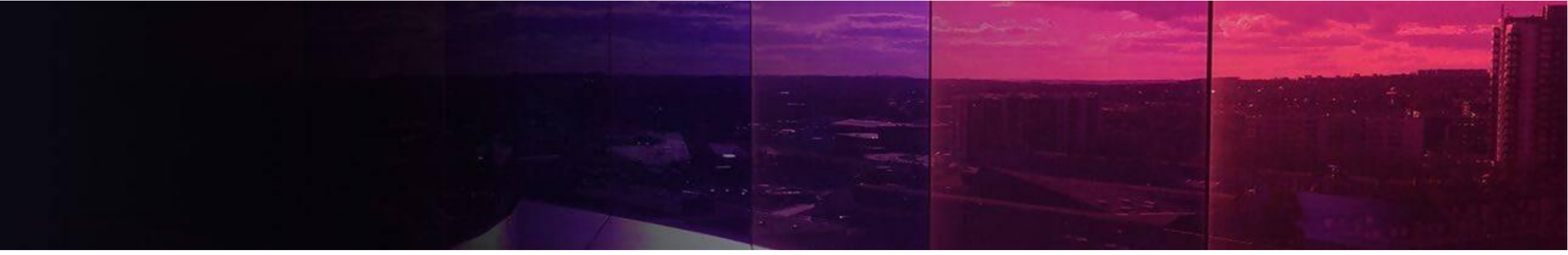
Director

She runs business and property investment events connecting Singapore investors with opportunities in Cambodia. These include monthly Cambodia investment briefings in Singapore, the Invest-Hub Forum in Phnom Penh.

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Simplify Digital Transformation with AWS

Amazon Web Services provided Awakening Vajra International with a secure, scalable and cost-effective cloud platform to build an AI-assisted learning experience from the ground up.

By leveraging managed AWS services, AVI avoided the complexity of building and operating AI and application infrastructure, while gaining access to advanced foundation models, responsible-AI guardrails, managed messaging and a container-based application layer.

Why Shri Sai Tech?

AVI selected Shri Sai Tech for its deep expertise in AI/ML on AWS, cross-platform mobile delivery, and the ability to turn a vision into a production-ready platform quickly.

Key reasons AVI selected SST:

- AI and machine-learning implementation on Amazon Bedrock
- Responsible-AI design using Amazon Bedrock Guardrails
- Cross-platform mobile development with React Native (Android and iOS)
- Cloud-native architecture and deployment on AWS
- Secure, multi-user application and relational data modelling on PostgreSQL
- Agile delivery and rapid, production-ready proof-of-concept execution

The Solution

SST designed and implemented the AVI Learning Platform — a cross-platform mobile app, a web admin console and an AI assistant — on Amazon Bedrock, Amazon SNS and a cloud-native AWS backend.

Cross-Platform Mobile App

A React Native app for Android and iOS with Teachings, Courses, Live Broadcast, Events, Centres, Donations, Profile and My Activity, and persistent sign-in.

AI Teaching Assistant with Responsible-AI Guardrails

A Claude and Titan assistant on Amazon Bedrock answers course, event and app questions and responds to personal topics compassionately; Bedrock Guardrails block personalised medical or financial advice.

Push Notifications & Deep Linking

Amazon SNS with Firebase Cloud Messaging broadcasts new courses and events and opens the right screen — verified on Android in foreground, background and closed-app states.

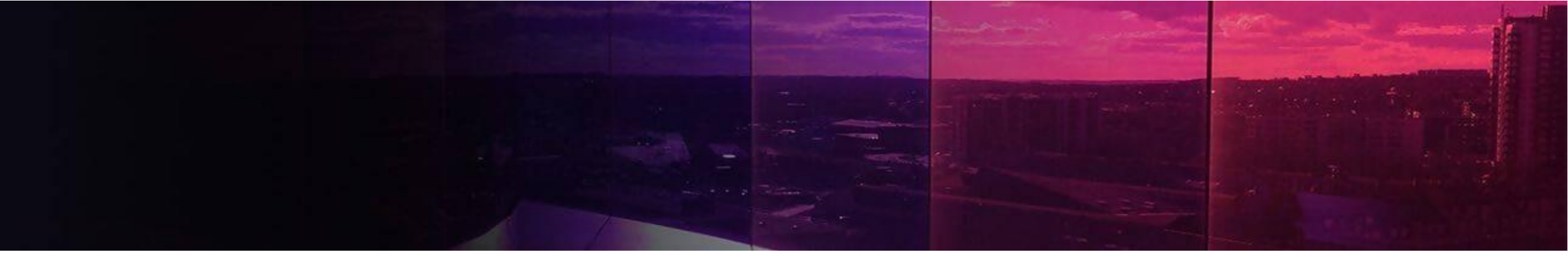
Admin Web Console

A Next.js console lets the team publish and manage courses, lessons and events, with a dashboard giving an at-a-glance view of published content.

Unified Backend & Data Model

A FastAPI service saves every record to one PostgreSQL schema, with token-based sign-in and versioned migrations.

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Cloud-Native Deployment on AWS

Containers on Amazon EC2 behind an Application Load Balancer, with Amazon ECR and a CI pipeline for repeatable builds.

AWS Services and AI Models Used

Foundation Models and Model Layer

Foundation Models	Provider-Agnostic Model Layer
Amazon Bedrock • Anthropic Claude — reasoning and answers • Amazon Titan Embeddings — retrieval • Bedrock Guardrails — safety controls	Portable and future-proof • Models accessed via an abstraction layer • Assistant stays portable across models • Ready for new Bedrock models as they ship

AWS Cloud Services

• Amazon Bedrock — foundation-model access • Amazon SNS — cross-platform push delivery	• Amazon EC2 + ALB — container hosting • Amazon ECR — container image registry

Results

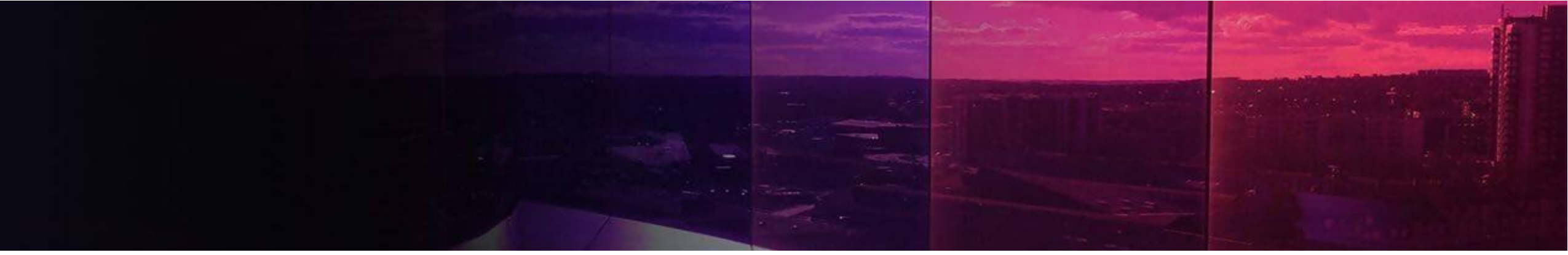
- **Reach**
  - One cross-platform app for teachings, courses, live broadcasts, events, centres and donations
  - Replaces a scattered set of tools with a single learning experience

- **Engagement**
  - Real-time push notifications with deep-linking bring the community straight to new content
  - Verified on Android across open, backgrounded and closed-app states

- **Responsible Guidance**
  - An AI assistant governed by Amazon Bedrock Guardrails
  - Safe, compassionate, non-diagnostic responses to personal questions

- **Speed of Delivery**
  - Designed, built and deployed within a focused engagement on AWS
  - Delivered as a production-ready proof of concept

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Benefits

- One mobile home for the whole community — learn, watch, attend, connect and give
- Instant, deep-linked engagement the moment new teachings and events are published
- A compassionate, guardrailed AI assistant available around the clock
- One relational source of truth, published and managed from a single admin console
- A secure, cloud-native AWS foundation ready to scale with the sangha
- A provider-agnostic model layer — portable and future-proof across foundation models

Next steps

- Ground the AI assistant in AVI's own teaching content via an Amazon Bedrock Knowledge Base
- Return assistant answers with citations to source teachings
- Add social and single sign-on options for faster onboarding
- Introduce subscriptions and the Dharma store
- Add puja and one-on-one bookings, and in-app giving

About Shri Sai Tech LLC DBA SST

SST is an AWS Partner specializing in AI-driven, cloud-native architecture and secure, compliant solutions across a wide range of industries — including healthcare, finance, education, retail, manufacturing, logistics, energy, government and public sector, telecommunications, and media and entertainment. Partnering closely with our clients, SST rapidly designs and deploys production-ready AI platforms on AWS, bringing AI-powered capabilities to market with speed and confidence.

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