error makes clever

EMC × VGTS Presents

FutureStack

AI FULL STACK ENGINEERING BOOTCAMP

By Error Makes Clever — one of the largest developer learning communities built from Tamil Nadu.

FutureStack — AI Full Stack Engineering Bootcamp

4 months of live training + a **1-month internship**. Startup-incubated, powered by **EMC** and backed by **VGTS**.

1.2M+

YouTube Subscribers

Teaching developers on YouTube.

15,000+

Students Trained

Across EMC programs and cohorts.

3,000+

Projects Built

By EMC students.

FRONTEND · BACKEND · DATABASE · AI · DEPLOYMENT

WHAT'S INSIDE

Everything in this

program, at a glance.

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01. PROGRAM OVERVIEW

Become an AI Full Stack Developer in four months.

4 Months of training	64 Live sessions

96

Live hours

+1

Month internship*

This is hands-on. You build in every session — no passive tutorials.

You'll build multiple real projects as you learn — going from coding fundamentals to building, securing and deploying complete applications, with AI integrated into the stack.

*For top-performing students, after the 4 months of training.

02. WHO IT'S FOR

Wherever you're starting from, there's a path for

you.

Students & Graduates

From any technical degree or diploma

B.Tech | B.E. | BCA | B.Sc. | MCA | M.Sc. | Diploma | Polytechnic

Career Starters & Switchers

Starting fresh or changing direction

College students | Freshers | Career gap | Career break | Non-IT → IT

Existing Builders

Already building, ready to add AI to your stack

- Working professionals
- Freelancers
- Junior developers
- Self-taught developers

One structured path

Full Stack × AI

03. WHY YOU'LL LOVE IT

Learning that behaves like

real engineering work.

- A curriculum designed, validated and refined with real startup input
- Build from day one and solve real implementation problems
- One connected stack — Full Stack × AI, learned together
- Build AI features into the applications you ship
- Projects deployed live, in a portfolio that proves your skills
- A certificate when you complete 65% of the course

04. OUR CURRICULUM PARTNER

A Curriculum Backed by VGTS.

Vish Gyana Technology Solutions builds scalable, AI-driven and cloud-native products that power real business growth. Trusted across the US, Europe, and India, they deliver high-impact solutions with speed, quality, and measurable results.

They incubated this curriculum — so you learn the practices, tools, and standards used to build products people actually rely on.

200+

Happy Customers

Across US, Europe & India

10+

Years in Industry

Proven delivery record

2M+

Delighted Users

Powered by VGTS products

05. DEFINITION

What Is a Startup-Incubated Curriculum?

Error Makes Clever

It’s a learning approach where the curriculum is **designed**, **validated**, and **refined** with real startup input — so what you learn matches what the industry actually builds.

Error Makes Clever

Designed → Validated → Refined

with real startup input

06. THE CURRICULUM · MONTH 01

Web, JavaScript & TypeScript

Students set up like real developers and learn how the web works — HTML, CSS, Tailwind, modern JavaScript and TypeScript — then ship a typed, deployed dashboard.

Weeks 1-4 | 16 sessions | 24 live hours

#	Topic	Live practical
#01	Kickoff, dev setup (VS Code, Node, terminal), how the web works (client–server, HTTP, browsers)	Set up machine, inspect requests in DevTools
#02	Git & GitHub: commits, branches, remotes	Create repo, push first commit
#03	HTML: semantic	Build a sign-up form

	structure, forms, tables	page
#04	CSS fundamentals	Personal bio page, pushed to GitHub
#05	CSS box model & Flexbox	Navbar + card layout
#06	CSS Grid, positioning, z-index	Gallery / dashboard grid
#07	Responsive design (media queries), transitions & animations	Make the bio page mobile-first
#08	Tailwind CSS	Responsive landing page, deployed on Vercel/Netlify
#09	JS: variables, types, operators, conditionals, loops	Logic exercises
#10	JS: functions, scope, arrays & array methods	Data-transform exercises
#11	JS: objects, strings, destructuring, spread, modules	Mini data-processing script
#12	DOM manipulation &	Interactive to-do app

	events	
#13	How JS works (call stack, event loop), callbacks & promises	Trace async code step by step
#14	Async/await, Fetch API, Vite tooling	Fetch and render live API data
#15	TypeScript: types, interfaces, generics	Convert the to-do app to TS
#16	Month 1 combined project + review	Weather/news dashboard in TS + Vite, deployed

MONTH 1 COMBINED PROJECT

Weather/news dashboard in TS + Vite

06. THE CURRICULUM · MONTH 02

React + TypeScript

The focus moves to building real interfaces: React with TypeScript, forms, state, routing, a design system, testing basics and Next.js — finishing with an e-commerce frontend.

`Weeks 5-8` `16 sessions` `24 live hours`

#	Topic	Live practical
#17	React intro: components, JSX, props (typed with TS)	Product card component set
#18	useState, events, lists & keys, conditional rendering	Filterable product list
#19	useEffect, data fetching, loading & error states	Product list from a live API
#20	React state + data	Movie/recipe search app
#21	Forms: controlled inputs, validation (react-hook-	Checkout form with validation

	form + Zod)	
#22	useContext, useReducer, custom hooks	Global cart state
#23	React Router: multi-page apps, protected routes	Home → product → cart pages
#24	Multi-page app	Shop with cart and routing
#25	Component design & design systems (Tailwind + shadcn/ui)	Reusable UI kit
#26	Performance (memo, code splitting) + testing basics (Vitest, RTL)	Test the cart logic
#27	Next.js intro: App Router, server vs client components	Port two pages to Next.js
#28	AI-assisted frontend with Cursor + v0	Generate a UI, then refactor and fix it by hand
#29	Git workflow: branching, PRs, code review	Team PR exercise

#30	Product thinking: user flows, MVP scoping	Scope the e-commerce MVP
#31	Project build session (mentor-supported)	Build the e-commerce frontend
#32	Month 2 combined project demo + review	E-commerce frontend, deployed

MONTH 2 COMBINED PROJECT

E-commerce frontend (React + TS)

06. THE CURRICULUM · MONTH 03

Node, Express & PostgreSQL

Students build the backend: Node and Express,

REST APIs, PostgreSQL with Prisma, authentication, payments and notifications — turning the shop into a full-stack app.

`Weeks 9-12` `16 sessions` `24 live hours`

#	Topic	Live practical
#33	Node.js fundamentals: runtime, modules, npm, file system	CLI tool in Node
#34	Express: routing, middleware, error handling	First Express server
#35	REST API design: resources, status codes, Zod validation, Postman	Design the products API
#36	REST API in TypeScript	Notes API (in-memory)
#37	SQL & PostgreSQL: tables, keys, CRUD queries	Write queries on a sample DB
#38	Relationships, joins, indexes, normalisation	Model users, products, orders

#39	Prisma ORM: schema, migrations, CRUD	Products API on Postgres
#40	API + database	Notes API moved to Postgres
#41	Authentication: password hashing, JWT, sessions	Sign-up / login API
#42	Authorisation, Google OAuth, role-based access	Admin vs customer roles
#43	Connecting React to Express: CORS, env vars, API client	Wire the shop frontend to the API
#44	Full-stack auth flow	Login-protected pages end to end
#45	Payments with Stripe (test mode), file uploads	Checkout with Stripe
#46	Email / WhatsApp notifications, analytics events	Order-confirmation messages
#47	Project build session (mentor-supported)	Finish the full-stack shop

#48	Month 3 combined project demo + review	Full-stack e-commerce app

MONTH 3 COMBINED PROJECT

Full-stack e-commerce app

06. THE CURRICULUM · MONTH 04

Architecture, Security, AI & DevOps

The app gets production-ready: system design, security, testing, AI features (LLMs, chat, embeddings, RAG), Docker and CI/CD — then a reviewed capstone and Demo Day.

Weeks 13–16 | 16 sessions | 24 live hours

#	Topic	Live practical
#49	System design basics: layered architecture, caching (Redis), scaling	Architecture diagram of the shop
#50	Security: OWASP Top 10, rate limiting, secrets management	Audit and fix the shop
#51	Backend testing (Vitest + Supertest), logging & error tracking	Tests for orders API
#52	Harden the app	Secure, tested e-commerce app
#53	AI for developers: LLMs, prompts, tokens, first LLM API call from Node	Server-side LLM endpoint
#54	AI features: chat with history in Postgres, streaming responses	Shop support chatbot
#55	Embeddings, pgvector, semantic search, RAG basics	Product semantic search

#56	AI-built project	RAG assistant over docs/FAQs (or AI expense tracker)
#57	AI-assisted development: Cursor, Claude Code, reviewing AI code; AI security (prompt injection, cost control)	Build a feature with AI, then review it
#58	DevOps: Docker, environments, config	Containerise the shop
#59	CI/CD with GitHub Actions, deploy (Vercel + Render/Railway), monitoring	Auto-deploy pipeline
#60	Capstone kickoff: scoping + architecture review	Approved capstone plan
#61	Capstone guided build	Unblock + code review
#62	Capstone build + portfolio & resume polish	Portfolio site updated
#63	Interview prep (DSA basics, system design Qs) + demo rehearsal	Mock interviews

#64	Demo Day & graduation	Live capstone demos

MONTH 4 COMBINED PROJECT

AI-built RAG assistant + capstone

07. FORMAT, DURATION & DELIVERY

How the program runs.

Duration

4 months (16 weeks) of training + a 1-month internship.

Schedule

Mon, Wed, Fri & Sat — 1.5 hrs each.

Weekly load

6 hrs of live classes + weekend homework.

Format

Live classes with a hands-on practical in every session. Recordings available after each class.

Weekly rhythm

Mon / Wed / Fri: concept + live practical.
Saturday: Build Lab — one guided build + code review.

Language

Tamil and English.

Projects

Multiple projects, an AI-built project and a capstone project.

Prerequisites

No prior coding experience required.

08. BEYOND THE CURRICULUM

Support that doesn’t stop at the syllabus.

Co-mentor support, 9 AM – 9 PM

Continuous guidance and doubt-solving, every day.

Weekly assessments & assignments

Reinforce learning and track progress.

Weekend Q&A sessions

Clear doubts and go deeper, live.

Mock interviews

Practise real scenarios and build confidence.

Interview preparation

Structured help to crack technical and HR rounds.

Placement assistance

Job opportunities, referrals and career guidance.

Lifetime community access

Stay connected to learners, mentors and opportunities.

Hackathons & offline meetups

Build, collaborate and network in person.

Exclusive CXO sessions

Real-world insight from industry and tech leaders.

Graduation day

Celebrate in person and receive your certificate.

09. INTERNSHIP PROGRAM

Earn your place in our internship program.

Top-performing students are eligible for a **1-month internship** after the 4 months of training.

Start the program

Complete the 4 months

Top performers selected

What you'll work on

A real full stack project that tests your frontend, backend and problem-solving skills.

INTERNSHIP

How we support you

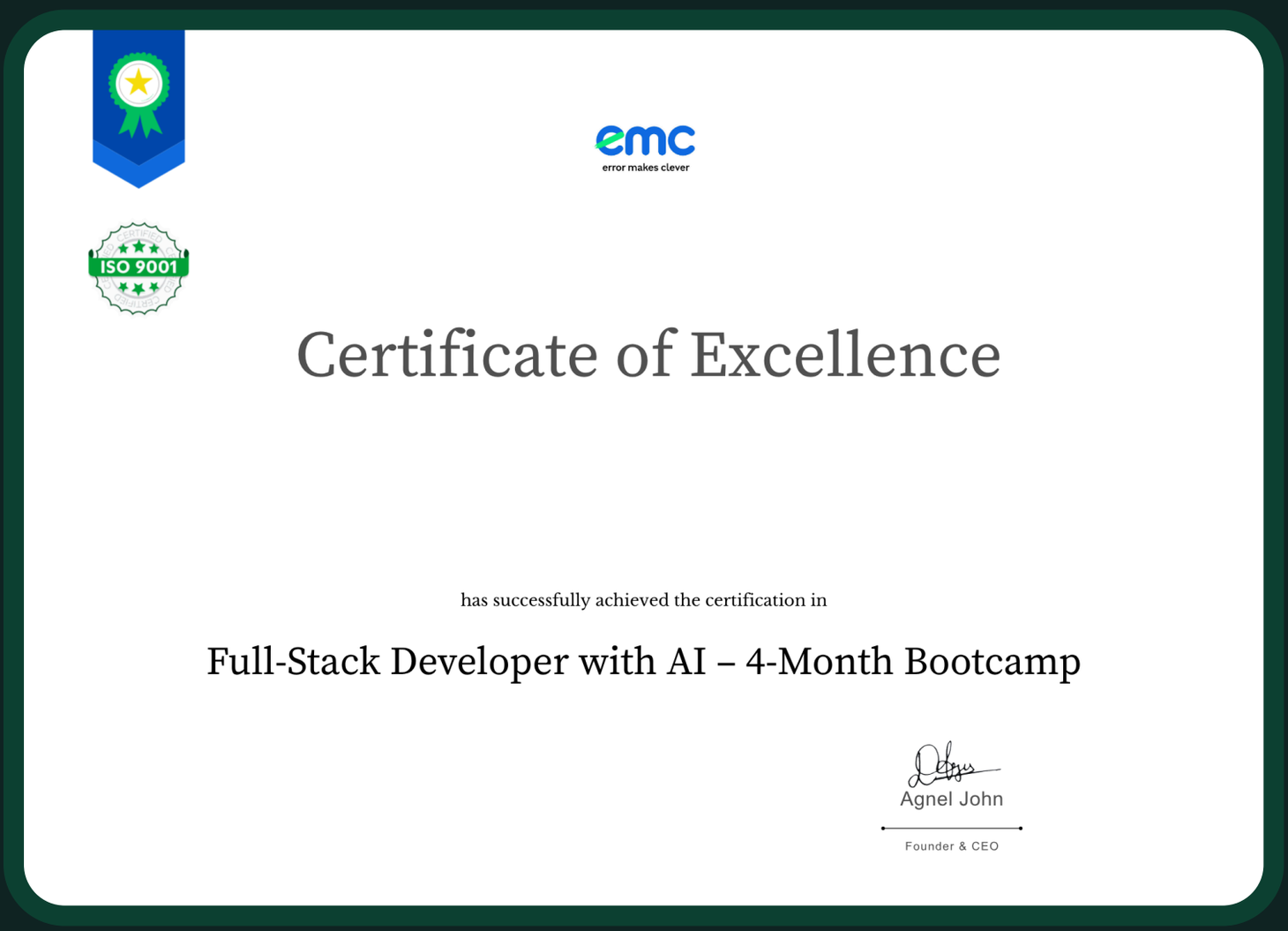
Work closely with our developers, get regular feedback, and see how real teams ship features.

1 MONTH

Strong interns may be considered for full-time roles — based on performance and availability.

10. YOUR CERTIFICATE

A certificate that reflects real capability.



Complete at least **65% of the course content** to earn your certificate.

Application Development

Build and deploy production-ready, scalable applications.

Modern Tech Expertise

Work across frontend, backend, database and AI.

Product Thinking

Apply problem-solving and system design to real products.

AI Integrations

Build AI features into real applications.

11. THE TEAM BEHIND THE VISION

Meet the minds behind FutureStack.

Meet the founders who brought FutureStack to life — engineers and operators who've built at some of the world's most respected technology companies, now shaping how the next generation of developers learns.

Agnel John

Founder & CEO

EX – accenture

Richa Marcia

Co-Founder & Managing Director

EX – Honeywell

Robin Sebastian

Chief Operating Officer

EX – NVIDIA

12. MENTORSHIP THAT GOES FURTHER

You're never building alone.

Expert-led live classes

Learn from engineers working at leading technology companies.

Dedicated co-mentors

Support every day from 9 AM to 9 PM.

Industry CXO sessions

Perspective and career guidance from senior leaders.

13. INVESTMENT & ENROLLMENT

Your seat, in five steps.

NO-COST EMI

₹6,999/month

₹49,999 total program fee

+ ₹20,000 success payment Paid

only after you're placed.

- No-Cost EMI — flexible monthly payments, with no extra cost.
- Lifetime recording access — curriculum, recordings, updates and community.
- Career support — resume building, mock interviews and placement assistance.

01

Submit your application

Fill out the form with your details to get started.

02

Free consultation call

Our team answers your questions and guides you through the program.

03

Prebook your slot

Pay ₹999 to prebook your seat, unlock your learning module and reserve your test slot.

04

Get evaluated

Complete the assessment to get shortlisted. Scholarships are awarded based on performance.

05

Secure your spot

Complete the final payment. Our team guides you through EMI options and payment methods.

4 MONTHS + 1-MONTH INTERNSHIP

Stop watching tutorials. Start shipping products.

Four months from now, you could have a live portfolio of real projects and the skills to build and deploy AI-powered full-stack products.

APPLY NOW

www.errormakesclever.com · enquiry@errormakesclever.com