

Perfect 💪 Since you're already good in **MERN**, here's your **refined 10-day-per-skill roadmap (Month-wise)** — structured, compact, and in **tabular format** for easy tracking 📌

🚀 8-Month Full-Stack Developer Mastery Plan (MERN → Cloud → Job-Ready)

Month 1 – Strengthen MERN + Deployment

Day Range	Focus	Key Topics / Tasks	Mini Project / Output
1-2	🔄 Revise MERN fundamentals	CRUD APIs, Express middlewares, MVC structure	Refactor an old MERN project
3-4	🔑 Authentication	JWT, bcrypt, refresh tokens, role-based access	Auth module setup
5-6	🧠 API Security	Helmet, rate limiting, CORS, dotenv	Secure API endpoints
7-8	⚙️ MongoDB Deep-Dive	Indexing, Aggregation pipelines	Query optimization
9-10	☁️ Deployment	Frontend → Vercel/Netlify Backend → Render/Heroku/AWS EC2	Live deployed Blog App

💡 **Outcome:** Fully deployed MERN Blog App (Auth + Comments + Likes + Roles)

Month 2 – Next.js + TailwindCSS + TypeScript

Day Range	Focus	Key Topics / Tasks	Mini Project / Output
1-2	⚡ Next.js Basics	Pages, SSR vs SSG, Routing	Basic Next App
3-4	🔄 Data Fetching	getStaticProps, getServerSideProps, API routes	Dynamic blog page
5-6	🎨 TailwindCSS	Utility classes, responsive UI	Styled components
7-8	🧩 TypeScript	Types, interfaces, props typing	Convert components to TS

9-10 🇪🇺 Integration Stripe checkout, product API Deployed E-commerce Store

💡 **Outcome:** Next.js + Tailwind + TS E-commerce (Stripe Payments)

Month 3 – Advanced Backend (GraphQL + WebSockets)

Day Range	Focus	Key Topics / Tasks	Mini Project / Output
1-2	🧬 GraphQL Basics	TypeDefs, Resolvers	Simple GraphQL API
3-4	⚙️ Apollo Server	Queries, Mutations	Connect MongoDB
5-6	🔔 WebSockets	Socket.io → Realtime Chat	Live message sync
7-8	🧱 Testing & Logging	Jest/Mocha, Winston	API test setup
9-10	🚀 Integration	Next.js frontend + GraphQL backend	Real-time Chat App




💡 **Outcome:** Realtime Chat App with GraphQL & WebSockets

Month 4 – Cloud & DevOps Basics

Day Range	Focus	Key Topics / Tasks	Mini Project / Output
1-2	🐳 Docker	Build, tag, run containers	Containerized MERN app
3-4	⚙️ CI/CD	GitHub Actions basics	Auto deploy setup
5-6	☁️ AWS Services	EC2, S3, RDS, Lambda	Host backend on EC2
7-8	💾 Caching	Redis intro, session caching	Speed up API
9-10	🧩 Combine All	Docker + CI/CD + AWS integration	SaaS Dashboard deployment





💡 **Outcome:** SaaS Dashboard running on AWS + Docker + CI/CD


Month 5 – Specialization (Pick One)

Day Range	Path	Key Topics / Tasks	Mini Project / Output
1-10	 AI + MERN	OpenAI API, LangChain basics	AI Resume Builder
OR	 Mobile (React Native)	Expo, API integration	Laundry App (FreshFold)
OR	 Cybersecurity	OWASP Top 10, MFA, Secure APIs	Secure Auth System




 **Outcome:** Specialized working project of your choice

Month 6 – System Design + Scaling

Day Range	Focus	Key Topics / Tasks	Mini Project / Output
1-3	 Basics	Scalability, Load Balancing	Read System Design Primer
4-6	 Databases	SQL vs NoSQL, sharding, indexing	DB schema case study
7-8	 Caching & Queues	Redis, RabbitMQ basics	Task queue demo
9-10	 Design Patterns	Singleton, Factory, Observer	Design doc: Twitter Clone

 **Outcome:** System design case study + patterns understanding


Month 7 – Interview Prep + Resume + Networking

Day Range	Focus	Key Topics / Tasks	Output
1-3	 DSA Plan	Arrays, Strings, LinkedList	Daily LeetCode
4-6	 Behavioral	STAR Method answers	Practice stories
7-8	 Resume + Portfolio	Next.js Portfolio site	Polished portfolio





9-10


 Networking

LinkedIn optimization







Posts +
connections **Outcome:** Ready resume + portfolio + interview routine

Month 8 – Job Applications + Mock Interviews


Day Range	Focus	Key Topics / Tasks	Output
1-3	 Job Search	Apply 5–10 jobs / day	Tracker sheet
4-6	 Referrals	Reach out to employees	Referral messages
7-8	 Mock Interviews	Friends / online platforms	Feedback notes
9-10	 Project Polish	Improve based on feedback	Final GitHub push

 **Outcome:** Active applications + refined project repo + confidence

✅ End Result After 8 Months




Area	Skill Mastered
 Full-Stack	MERN + Next.js + TS + Tailwind
 Backend	GraphQL + WebSockets + Redis
 Cloud/DevOps	Docker + AWS + CI/CD
 Specialization	AI / Mobile / Security
 System Design	Scalable app architecture
 Career Prep	Resume + Portfolio + DSA + Interviews

Would you like me to make this into a **beautiful PDF version (with progress tracker columns)** so you can print or tick off as you go?

Perfect  — here's the **entire SDLC + roles + trending technologies (2025)** turned into a clean, professional **tabular format**, ideal for revision, portfolio notes, or a PDF later.

SDLC Phases & Trending Technologies (2025)




Phase	Who Works Here	What Happens	Trending Tools / Technologies
1 Requirement Analysis & Planning	Product Manager, Business Analyst, UX Researcher, Solution Architect	Understand business needs, define requirements, feasibility & risk analysis	Product Mgmt: Jira, ClickUp, Notion, Confluence, Linear Requirement Gathering: Miro, Figma Communication: Slack, MS Teams, Loom, FigJam AI Assistants: ChatGPT, Notion AI, Linear Insights
2 System Design (Architecture & UI/UX)	Solution Architect, UI/UX Designer, Tech Lead	Design architecture, database schema, API contracts, user flows	UI/UX: Figma, Adobe XD, Framer Architecture: Lucidchart, Draw.io, Whimsical Cloud Design: AWS Well-Architected, GCP Architecture Center, Azure Studio Patterns: Microservices, Kafka, gRPC, GraphQL
3 Development (Coding & Implementation)	Frontend, Backend, Fullstack, Mobile, AI/ML Developers	Build features, write clean code, integrate APIs	Frontend: React, Next.js, Vue 3, Tailwind CSS Backend: Node.js (Express/NestJS), Django/FastAPI, Spring Boot, GoLang Databases: MongoDB, PostgreSQL, Redis, Firebase APIs: REST, GraphQL, tRPC Mobile: React Native, Flutter AI/ML: PyTorch, TensorFlow, LangChain, OpenAI API Version Control: Git, GitHub/GitLab
4 Testing (QA & Automation)	QA Engineer, SDET, Automation Engineer	Validate functionality, automate tests, ensure quality	Automation: Selenium, Cypress, Playwright API Testing: Postman, Karate Mobile Testing: Appium, Detox Unit Testing: Jest, Mocha, PyTest, JUnit CI/CD Testing: GitHub Actions, Jenkins AI Testing: Testim.io, Mabl, BrowserStack (AI)
5 Deployment (Release & Delivery)	DevOps, Release Engineer, Cloud Engineer	Deploy app to servers/cloud, manage environments	CI/CD: GitHub Actions, GitLab CI, CircleCI, ArgoCD Containers: Docker, Kubernetes, Helm Cloud Platforms: AWS, Azure, GCP, DigitalOcean, Vercel, Netlify Serverless: AWS Lambda, Cloudflare Workers, Firebase Functions







 Operations & Monitoring	DevOps, SRE (Site Reliability Engineer), CloudOps	Monitor uptime, logs, performance, scale infrastructure	Monitoring: Prometheus, Grafana, Datadog Logging: ELK Stack, Loki Error Tracking: Sentry, Rollbar Infra as Code: Terraform, Pulumi, Ansible
 Maintenance & Support	Tech Support, Customer Success, On-call Engineers	Handle bugs, updates, security patches, customer queries	Ticketing: Zendesk, Freshdesk, Jira Service Desk Feedback: Intercom, Hotjar, Crisp Automation: AI Chatbots (Drift, ChatGPT bots) Observability: OpenTelemetry, Honeycomb
 Bonus Layer (Across All Phases)	Everyone	Continuous integration, security, collaboration	Collaboration: GitHub Copilot, ChatGPT, Cursor AI DevSecOps: Snyk, OWASP ZAP, Prisma Cloud Agile Practices: Scrum, Kanban, CI/CD, IaC AI Integration: AI testing, coding, monitoring tools



Would you like me to include the “**Roles & Sub-Roles (Product Manager → DevOps → Data Scientist)**” from your first part in the **same tabular style** next, right below this?

Perfect 🙌 — here’s the **Roles, Sub-Roles & Trending Technologies (2025)** section rewritten in a clean **tabular format** that matches the SDLC table above.

Roles, Sub-Roles & Trending Technologies (2025)

Role	Trending Technologies / Focus Areas	Sub-Roles	Key Tools / Technologies
 Product Manager	Product Analytics, User Feedback, Market Research	Product Owner: Agile, Scrum, Backlog Mgmt Product Marketing Manager: Digital Marketing, Positioning	Jira, Asana, Trello, Productboard
 Designer	UX/UI Design, Human-Centered Design	UX Designer: User Research, Wireframing, Prototyping UI Designer: Visual & Interaction Design	Figma, Sketch, Adobe XD, InVision
 Frontend Developer	React, Angular, Vue.js, WebAssembly	JavaScript Developer: ES6, Frameworks UI Engineer: HTML, CSS, Responsive Design	Webpack, Babel, ESLint, Jest

 Backend Developer	Node.js, Python, Ruby, Go	API Developer: REST, GraphQL, Security Database Admin: Design, Query Optimization	Express.js, Django, Rails, PostgreSQL
 Full-Stack Developer	MERN, MEAN, JAM Stack	Full-Stack Engineer: React, Node, MongoDB Technical Lead: Architecture, System Design	Docker, Kubernetes, AWS, Azure
 QA Engineer	Automated Testing, Test-Driven Development (TDD)	Manual Tester: Test Case Creation, Execution Automation Engineer: Selenium, Appium	Jest, Mocha, Chai, Cypress
 DevOps Engineer	CI/CD, Containerization, Orchestration	CI/CD Engineer: Jenkins, GitLab Cloud Engineer: AWS, Azure, GCP	Docker, Kubernetes, Ansible, Terraform
 Security Engineer	Cybersecurity, Threat Detection, Incident Response	Security Analyst: Threat Modeling, Vulnerability Scans Incident Responder: Forensics, Incident Handling	OWASP, NIST, Burp Suite, Metasploit
 Data Scientist	Machine Learning, Deep Learning, NLP	Data Analyst: Visualization, Analysis ML Engineer: Model Building, Deployment	TensorFlow, PyTorch, scikit-learn, Pandas

Would you like me to now combine both tables ( SDLC +  Roles) into a **single, well-styled PDF** — with icons, color highlights, and headings (ready for portfolio or notes)?