

6-Month Full Stack & AI Career Roadmap

Month 1 (August): Full Stack Development Foundation

- [] HTML, CSS, JavaScript fundamentals
- [] Learn React.js (hooks, state management)
- [] Backend with Node.js + Express.js
- [] MongoDB basics & CRUD
- [] Create 2 mini full stack apps
- [] Setup GitHub, push code daily
- [] Start building personal portfolio

Month 2 (September): AI Integration + Full Stack Project

- [] Integrate OpenAI API or Gemini into one project
- [] Learn basics of Python + ML models
- [] Deploy full stack app on Render or Vercel
- [] Add authentication + authorization (JWT, OAuth)
- [] Begin writing blogs or creating short content around your learnings
- [] Build 1 AI-integrated portfolio project (ex: AI Blog Generator)

Month 3 (October): DevOps + Cloud Fundamentals

- [] Learn Linux basics + Shell scripting
- [] Git advanced usage + branching strategies
- [] CI/CD basics with GitHub Actions
- [] Learn Docker + Dockerizing projects
- [] Cloud: Start with GCP or AWS (free tier)
- [] Create portfolio project deployed via Docker + CI/CD
- [] Get certified: Google Cloud Digital Leader (Free)

Month 4 (November): System Design + Resume + Branding

- [] Understand System Design basics (scalability, load balancers)
- [] Create design diagrams for your apps
- [] Finalize resume with ATS template
- [] Optimize GitHub profile (readme, pin projects)

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- [] LinkedIn profile revamp (headline, about, banner)
- [] Start writing posts weekly on learnings
- [] Communication: Record 1 explainer video/week

Month 5 (December): DSA + Mock Interviews

- [] Choose one sheet: Striver's SDE/450 DSA Sheet
- [] Practice 1.5-2 hours daily on LeetCode or CodeStudio
- [] Solve 30-50 DSA problems minimum
- [] Attend mock interviews (peer or free mock platforms)
- [] Join Discord/Telegram DSA peer groups
- [] Start applying to internships and entry roles

Month 6 (January): Final Prep + Applications

- [] Revise full stack + devops projects
- [] Final round of DSA problem solving
- [] Prepare common HR + technical questions
- [] Take part in hackathons (Devfolio, HackerEarth)
- [] Apply to jobs via: LinkedIn, Wellfound, Naukri, Google Careers
- [] Follow up applications + send 5 custom messages/week
- [] Attend career fairs, virtual tech webinars

Certifications to Target (Free/Budget)

- [] Google Cloud Digital Leader (Free)
- [] Meta Front-End Certificate (Free Trial)
- [] Harvard CS50 (Free)
- [] IBM AI Engineering (Audit Free)
- [] Great Learning: DevOps & AI intro courses

Communication & Confidence Building

- [] Daily 15 min mirror talk (explain concept)
- [] Join Toastmasters / public speaking groups
- [] Write 1 blog or LinkedIn post weekly

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- [] Participate in community discussions
- [] Record project walkthroughs for YouTube

Resume, GitHub & LinkedIn Optimization

- [] Resume: Use Canva or Overleaf ATS templates
- [] GitHub: Professional README, commit daily, star & fork repos
- [] LinkedIn: Banner, clean headline, 10+ keywords, post weekly

Mock Interview & Job Strategy

- [] Platforms: Pramp, InterviewBuddy, peers
- [] Create Google Sheet of applications
- [] Track: Job role, date, status, feedback
- [] Apply to 5-10 roles/week
- [] Target off-campus drives and referral programs

Tools & Resources

- [] VS Code, Postman, GitHub, Figma
- [] Roadmap.sh, freecodecamp, GeeksforGeeks
- [] YouTube: Apna College, CodeWithHarry, FireShip
- [] Books: System Design Primer, Cracking the Coding Interview