

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