



SAARTHI • सारथी

करियर मार्गदर्शन पोर्टल • Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट • CAREER SHEET

प्रोग्रामर/कोडर/सॉफ्टवेयर इंजीनियर

A software engineer (programmer/coder) writes code to build apps, websites and software, tests them and fixes bugs. It is the core coding career in IT, reachable by many routes—B.Tech, BCA or self-study.



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/software-engineer

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

Govt. Sr. Sec. School, Jethantri • ब्लॉक समदड़ी • बालोतरा (Block Samdari • Balotra)

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सुशील कुमार शर्मा

प्रधानाचार्य, रा.उ.मा.वि. जेठन्तरी • मास्टर ट्रेनर
Principal, GSSS Jethantri • Master Trainer



श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

अभिकल्पना व विकास • व्याख्याता (इतिहास)
Designed & developed • Lecturer (History)

विशेष धन्यवाद • SPECIAL THANKS



सुरेन्द्र सिंह राठौड़

व्याख्याता (इतिहास) • रा.उ.मा.वि. कानाना



सुरेश कुमार सैन

व्याख्याता (भूगोल) • रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

व्याख्याता (इतिहास) • रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) • रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। • An independent project based on the Government's official career-guidance content.

1 About this career

A software engineer (programmer/coder) writes code to build apps, websites and software, tests them and fixes bugs. It is the core coding career in IT, reachable by many routes—B.Tech, BCA or self-study.

2 At a glance

Minimum qualification	B.Tech/BCA/B.Sc or strong coding skills
Duration	3–4 yr degree or self-study
Starting salary	₹30,000–60,000/month
Work Field	IT firms, start-ups, product companies

3 What you need

INTERESTS

- Strong interest in computers and coding
- Curiosity to learn new technology
- Enjoy solving problems

ABILITIES

- Logical and analytical thinking
- Patience and continuous learning
- Attention to detail

KEY SKILLS

- Programming languages (Python, Java, C++, JS)
- Web/app development
- Git and version control
- Using basic AI/cloud tools
- Data structures and algorithms
- Databases and SQL
- Problem-solving and debugging

4 How to get there

- 1 Pass 10+2 in any stream (maths helps)
- 2 Do B.Tech/BCA/B.Sc in CS/IT
- 3 Master one language (Python/Java) and DSA
- 4 Build projects and keep a GitHub portfolio
- 5 Start via internship or as a junior developer

MAIN EXAMS

- JEE Main / Rajasthan REAP (for B.Tech)
- Selection is usually based on coding tests & interviews

5 Where to study

GOVERNMENT INSTITUTES

- MNIT Jaipur — Jaipur, Rajasthan
- IIIT Kota — Kota, Rajasthan
- IIT Jodhpur — Jodhpur, Rajasthan
- University of Rajasthan — Jaipur, Rajasthan

PRIVATE INSTITUTES

- LNMIIT — Jaipur
- Manipal University Jaipur — Jaipur
- JECRC University — Jaipur

ONLINE

- NPTEL SWAYAM - Programming — Online (Govt of India)
- freeCodeCamp / The Odin Project — Online (free) (<https://www.freecodecamp.org>)
- Udemy - Programming Courses — Online (<https://www.udemy.com/course/become-a-programmer/>)

FEES

Roughly ₹50,000–2,00,000 in government institutes, up to ₹4,00,000–10,00,000 in private ones. One can also learn via online/free resources.

SCHOLARSHIPS

- National Scholarship Portal (NSP) (<https://scholarships.gov.in>)
- Rajasthan SSO / SJE Scholarship (<https://sso.rajasthan.gov.in>)
- Buddy4Study (<https://www.buddy4study.com>)
- Vidya Lakshmi Education Loan (<https://www.vidyalakshmi.co.in>)

6 What the work is like

WHERE YOU WORK

IT services and product firms, start-ups, banks-fintech, e-commerce and Jaipur's growing IT companies. Freelancing or starting your own company is also possible.

WORK CULTURE

Office and remote/hybrid; 5 days a week, 8–9 hours; agile teamwork; sometimes extra hours near deadlines. Opportunities exist for persons with disabilities.

WHO HIRES

- | | |
|--|---|
| • TCS / Infosys / Wipro / HCLTech | • Google / Microsoft / Amazon |
| • Start-ups and product companies (SaaS) | • GirnarSoft (CarDekho) / Nagarro / Metacube (Jaipur) |
| • Fintech and e-commerce companies | • Freelance and own start-up |

DEMAND (2026)

In 2026 software is the backbone of every industry and AI has boosted developer productivity; engineers with strong coding and problem-solving skills remain in the highest demand.

7 Career growth

- 1 Intern / Junior Developer
- 2 Software Engineer
- 3 Senior / Lead Engineer
- 4 Architect / Engineering Manager

EARNINGS

Starting	₹30,000–60,000/माह
Mid level	₹1,00,000–2,00,000/माह
Senior level	₹3,00,000–6,00,000+/माह

Pay is highest in product and global companies; it rises quickly with strong skills and projects.

8 The good parts · The challenges

The good parts

- High pay and fast career growth
- Remote and global opportunities
- Entry via many routes—degree or self-study

The challenges

- Must constantly learn new technology
- Pressure of deadlines and long screen time
- Intense competition at entry level

9 Real-life journeys

Kunal Kushwaha

Self-taught software engineer & developer advocate

Kunal Kushwaha is a self-taught engineer who built his career through open source and community. Today he is a developer advocate in the cloud-native space and teaches coding free to millions of students on YouTube—showing that dedication can bring success without expensive routes.

CNCF (Cloud Native Computing Foundation) · <https://www.cncf.io/humans-of-cloud-native/kunal-kushwaha-on-a-mission-to-bring-students-to-cloud-native/>

Shalini Sah

Software engineer; top woman competitive coder from India

Shalini Sah, a computer science engineer from NIT Durgapur, is counted among India's best women coders. On the strength of competitive programming she earned a place in global tech companies—showing that girls can reach the very top in coding.

NIT Durgapur Alumni Association / CodeChef · https://www.codechef.com/users/mischievous_me

10 If this route does not work out

One exam or one attempt does not close the door. The same subjects also open these routes — entry is usually easier, and you can return to this field later.

- Software Developer
- AI Research Scientist
- AI Ethics Researcher

11 Sources & further reading

1. Rajasthan Govt Career Guidance – Software Engineer — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%aa%e0%a5%8d%e0%a4%b0%e0%a5%8b%e0%a4%97%e0%a5%8d%e0%a4%b0%e0%a4%be%e0%a4%ae%e0%a4%b0%e0%a4%95%e0%a5%8b%e0%a4%a1%e0%a4%b0%e0%a4%b8%e0%a5%89%e0%a4%ab%e0%a5%8d%e0%a4%9f%e0%a4%b5%e0%a5%87%e0%a4%af/>
2. freeCodeCamp (learn free) — <https://www.freecodecamp.org>
3. NIRF Ranking (institutes) — <https://www.nirfindia.org>



And 770+ more careers — the whole portal

Interest and aptitude tests, government jobs, skill courses and a CV builder — free, no login, and it works offline.

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