

CAREER-CHANGE PROGRAM · NO CODING NEEDED TO START

AI Software Developer

Program

Start from AI productivity and build toward junior full-stack development. You learn React, TypeScript, Node.js, databases, Docker, CI/CD, and AWS basics through projects employers can review.

ONE PROGRAM · TWO MODULES

- | | |
|---|------|
|  AI & Automation | M1-3 |
|  Full-Stack Software | M4-6 |



Free!

100% tuition-free

with a Bildungsgutschein from the Agentur für Arbeit or Jobcenter, for eligible learners in Germany.*



Certification preparation

Structured preparation for Google AI and AWS Cloud Practitioner certifications, plus your Ai School / StartSteps completion certificate.

6 months full-time

Monday to Friday · 1,200 teaching units · two modules, each ending with a capstone.

 **LANGUAGE OF INSTRUCTION**
English
German for career and job-market topics

 **LOCATION**
100% online
Instructor-led, with daily practical labs

 **DEVICES**
Laptop provided
For the duration of the course

*Eligibility is decided individually by the employment agency — Ai School cannot guarantee approval.

From using AI to shipping software — in six months.

Two modules: first workplace AI, automation, and the habits that make AI-assisted work reliable; then full-stack development with React, Node.js, databases, Docker, and CI/CD. You finish with a deployed application.

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 DURATION 6 months, full-time Monday to Friday	 VOLUME 1,200 teaching units ~120 instruction days	 FORMAT Live online Instructor-led	 GROUP SIZE Max. 12 participants Per group
 LANGUAGE English instruction German for career topics	 LEVEL Beginner No coding background required	 LAPTOP Provided For the duration of the course	 COST 100% tuition-free With a Bildungsgutschein, if eligible*

Who it is for

- Career changers without prior professional coding experience
- Job seekers targeting junior developer roles in Germany
- People who want a portfolio of deployed, documented software

What makes it different

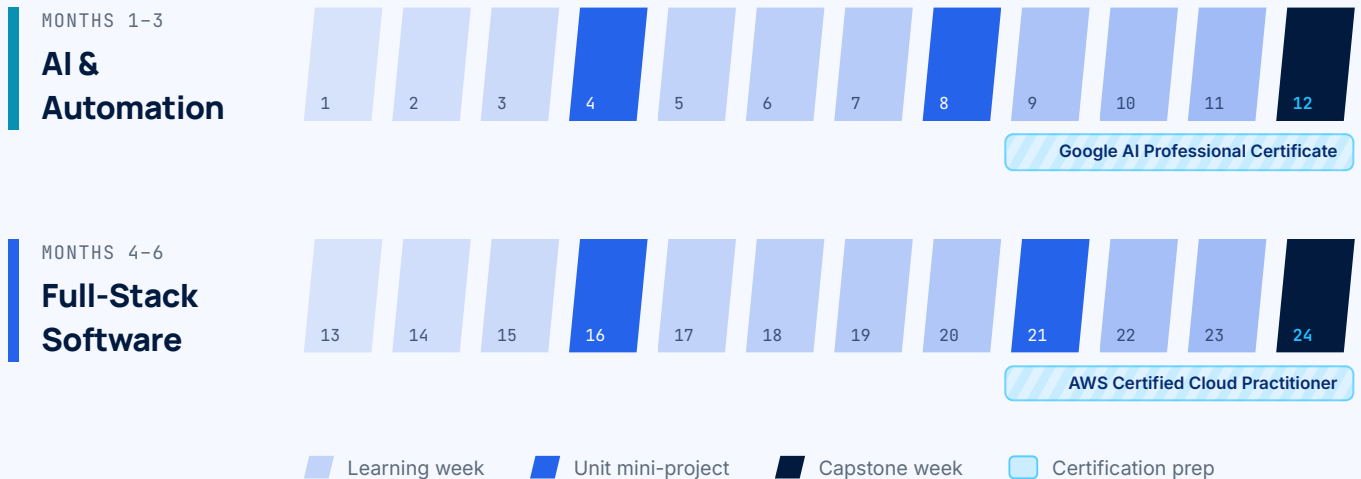
- 01 AI-first, engineering-grade**
You use AI tools from day one — and learn to verify what they produce with tests, code review, and Git discipline.
- 02 Foundations before frameworks**
The first module builds AI judgement, automation, and API literacy, so month four is not your first contact with how systems talk to each other.
- 03 Proof every twelve weeks**
Each module ends with a capstone week. You leave with a deployed app, a CI pipeline, and a Git history employers can read.

By the end of the program, you can

- Use AI at work responsibly, with GDPR and the EU AI Act in view
- Design and build REST APIs with Node.js and a database
- Deploy to AWS and explain what runs where
- Build React interfaces in JavaScript and TypeScript, with tests
- Containerize a service and ship it through GitHub Actions
- Show a deployed full-stack app with a documented Git workflow

Your six months, week by week

One program, two modules of twelve weeks. The second builds directly on the first, and each ends with a capstone you demo and add to your portfolio.



How a module works

WEEKS 1-11

Learn and build

Live input every morning, labs every afternoon. Each unit closes with a short mini-project that pulls its topics together.

FINAL WEEKS

Certification prep

Exam preparation happens inside the program hours, alongside your project work.

WEEK 12

Capstone week

Finish, test, and demo your project. You get feedback and add it to your portfolio.



Why this order

You automate before you code. Module 1 gives you APIs, JSON, and the habit of verifying AI output; module 2 turns that into real software with tests, containers, and a deployment you can show.

Topics and tools are indicative and updated as the industry changes.

WEEK 12

Capstone

A role-based AI project with a measurable outcome

WEEK 24

Capstone

A team-built full-stack app, deployed to AWS

What you learn, module by module

Each module is 3 months and 600 teaching units, split into three units. Units end with a short mini-project; each module ends with a capstone week.

MODULE 1 OF 2 • MONTHS 1-3 • 600 TEACHING UNITS

01 AI & Automation

Use AI productively and safely at work, and automate real workflows.

1.1 • Weeks 1-4

AI productivity, ethics & digital workflows

- Generative AI basics and task-based prompting
- Verifying AI output: bias and hallucinations
- GDPR fundamentals, vendor privacy policies, EU AI Act
- Data literacy, KPIs, and workflow mapping

Mini-project • AI-assisted weekly workflow pack

1.2 • Weeks 5-8

Automation, APIs & no-code systems

- n8n automation patterns and reliability
- REST, JSON, and webhooks in plain language
- Dashboards and a first vibe-coding lab
- Intro to Microsoft Power Automate

Mini-project • Multi-step automation + KPI dashboard

1.3 • Weeks 9-12

Applied project

- Problem framing, stakeholders, and measurable KPIs
- Research and evidence with AI tools
- Builder lab with v0, Lovable, and Cursor

Prep • Google AI Professional Certificate

Capstone • Module 1 capstone demo

MODULE 2 OF 2 • MONTHS 4-6 • 600 TEACHING UNITS

02 Full-Stack Software

Build, test, and deploy web applications with containers and CI/CD.

2.1 • Weeks 13-16

Frontend with AI-assisted development

- JavaScript, TypeScript, and Git on the command line
- AI pair programming — with verification
- React: components, state, routing
- Responsive UI, accessibility, and testing

Mini-project • A small React app with tests and README

2.2 • Weeks 17-21

Backend, data, Docker & CI/CD

- Node.js, Express, and REST API design
- PostgreSQL and Supabase data models
- Authentication, secrets, and Docker
- AI APIs and GitHub Actions pipelines

Mini-project • Backend project with containers and CI

2.3 • Weeks 22-24

Full-stack apps & AWS basics

- Observability and optimization
- AWS fundamentals and deployment
- Git Flow, code reviews, and team delivery

Prep • AWS Certified Cloud Practitioner

Capstone • Final capstone demo

How you learn

You learn full-time in a real online classroom, with instructors and peers. Mornings are live. Afternoons are for labs, projects, and practice.

A typical day



You are not learning alone

■ Mentoring

Instructor feedback, one-on-one mentoring, review sessions, and extra practice when a topic is hard.

■ Assessment

Labs with feedback, unit mini-projects, and a capstone demo at the end of every module.

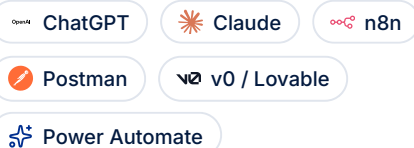
■ Completion certificate

Meet the attendance, assignment, project, and assessment requirements to receive your Ai School / StartSteps certificate.

Your toolbox

Tools are examples. We update the stack as the industry changes.

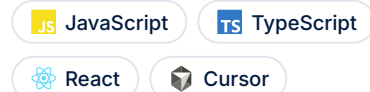
AI & AUTOMATION



BACKEND & DATA



FRONTEND



DELIVERY



Built for junior developer roles

The program is designed to build job-relevant skills and employer-checkable project evidence. We help you package your work into a clear portfolio and career story.



Certification preparation

MODULE 1

Google AI Professional Certificate

Google · Coursera

MODULE 2

AWS Certified Cloud Practitioner

Amazon Web Services

MODULES 1-2

Ai School / StartSteps completion certificate

For every completed module

We prepare you for external exams; passing cannot be guaranteed and is not required to complete the course.

Roles this program can prepare you for

Junior Full-Stack Developer

Junior Frontend Developer (React)

Junior Software Engineer

AI-assisted Software Developer

Junior Mobile Developer (React Native track)

Your readiness depends on your effort, project quality, language level, and prior experience.

Your portfolio after six months

- ✓ A deployed full-stack application
- ✓ A CI/CD pipeline and a containerized service
- ✓ Documented Git workflow and code reviews
- ✓ Workflow automations from the first module

Career support

- ✓ CV and LinkedIn improvement
- ✓ Portfolio preparation and project storytelling
- ✓ Interview practice and soft skills
- ✓ Job-search strategy for Germany

Start your program

As early as possible. Funding decisions and course preparation take time — start before the course date gets close.

1

Apply or book a free call

Tell us your goals on aischool.de. We help you choose the right program and tell you the next start date.

2

Orientation conversation

We look at your background, goals, and funding situation together.

3

Talk to your agency

Book an appointment at your Agentur für Arbeit or Jobcenter. We give you the course documents.

4

Start with your cohort

When your funding is in place, you join your group. We provide a laptop for the course.

What you need

- ✓ No programming experience — the program starts from the foundations
- ✓ Comfortable following technical instruction in English (B1+ is a useful baseline)
- ✓ Time for full-time online learning, Monday to Friday, for six months
- ✓ Motivation, consistency, and digital confidence
- ✓ For Bildungsgutschein funding: living in Germany and registered with Agentur für Arbeit or Jobcenter

Good to have

- ✓ A clear goal — the kind of developer role you are aiming for
- ✓ Readiness to prepare documents and a Jobcenter conversation
- ✓ A habit of practising — you build something every week

For your Agentur für Arbeit / Jobcenter appointment

Show these details to your case worker.

MEASURE

Full Stack AI & Cloud Engineering mit individuellem Eintritt

MODULES IN THIS PROGRAM

Bausteine 1–2: AI and Automation Skills for Professionals · AI Software Development

PROVIDER

StartSteps Digital Education GmbH, Berlin

APPROVAL

AZAV-approved measure · CERTQUA · Reg. no. 2026M101555-10001

SCOPE

2 × 600 UE = 1,200 UE · fully online

Questions? Let's talk.

Book a free advisory call or write to us. We usually reply within 1–2 business days.

PROGRAM & CURRICULUM

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FUNDING & PAPERWORK

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Scan for the program page and

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