

# IET – 180 Day Developer Program

Python · Django · Django REST Framework · Flutter

Start Date: 15 Jan 2026 · Duration: 180 Days · End Date: 13 Jul 2026

## Phase I · Core Fundamentals & Web Expertise – Weeks 1–8

WEEK	DATES	TRACK	FOCUS & KEY TOPICS
1	15 Jan – 21 Jan 2026	Python Basics	<b>Orientation &amp; Environment Setup</b> – Python installation, IDE setup, Git/GitHub basics, first scripts; data types, variables, input/output.
2	22 Jan – 28 Jan 2026	Python Flow	<b>Control Flow &amp; Functions</b> – if/else, loops, list/dict comprehensions, functions, modules, packages, virtual environments.
3	29 Jan – 4 Feb 2026	Python OOP	<b>OOP &amp; Error Handling</b> – Classes/objects, inheritance, polymorphism, magic methods, exceptions, logging, intro to unit tests.
4	5 Feb – 11 Feb 2026	CS Essentials	<b>Data Structures &amp; OS/Networking</b> – Lists, sets, dicts, stacks/queues basics, CLI usage, file I/O, basic networking and Git workflows.
5	12 Feb – 18 Feb 2026	HTML	<b>HTML5 &amp; Structure</b> – Semantic tags, forms, tables, basic layout; build first multi-page static site.
6	19 Feb – 25 Feb 2026	CSS	<b>CSS3 &amp; Responsive Design</b> – Box model, typography, colors, spacing, Flexbox, CSS Grid, mobile-first responsive design.
7	26 Feb – 4 Mar 2026	JavaScript	<b>JavaScript Fundamentals</b> – ES6+, variables, functions, arrays, objects, DOM manipulation, events, basic interactive components.
8	5 Mar – 11 Mar 2026	JS + APIs	<b>Async JS &amp; Mini Project</b> – Promises, async/await, fetch/REST APIs; build a small responsive front-end app consuming a public API.

## Phase II · Specialized Frameworks (Django, DRF & Flutter) – Weeks 9–17

WEEK	DATES	TRACK	FOCUS & KEY TOPICS
9	12 Mar – 18 Mar 2026	Django Core	<b>Django Fundamentals</b> – Project/app structure, settings, URLs, views, templates, models, migrations, Django admin CRUD.
10	19 Mar – 25 Mar 2026	Django Forms	<b>Forms &amp; Auth</b> – Django forms, validation, CSRF, messages, user registration, login/logout, basic access control.
11	26 Mar – 1 Apr 2026	Django ORM	<b>ORM &amp; Class-Based Views</b> – Relationships (OneToOne, FK, M2M), querysets, generic/class-based views, filtering, pagination.
12	2 Apr – 8 Apr 2026	DRF Basics	<b>REST APIs with DRF</b> – Serializers, basic API views, JSON responses, CRUD endpoints for a sample domain.
13	9 Apr – 15 Apr 2026	DRF Advanced	<b>Advanced DRF</b> – Viewsets, routers, permissions, throttling, filtering, ordering, pagination, API versioning concepts.
14	16 Apr – 22 Apr 2026	Dart	<b>Dart &amp; Flutter Setup</b> – Dart syntax, types, functions, classes; Flutter install, project structure, hot reload, basic app skeleton.
15	23 Apr – 29 Apr 2026	Flutter UI	<b>Flutter UI Fundamentals</b> – Widgets tree, Stateless vs Stateful widgets, layout (Row, Column, Container, ListView), navigation.
16	30 Apr – 6 May 2026	Flutter Forms	<b>Forms &amp; State Management</b> – TextFields, form validation, managing input; intro to Provider/BLoC or similar for small/medium apps.
17	7 May – 13 May 2026	Flutter + API	<b>Networking in Flutter</b> – HTTP requests, JSON parsing, error handling; list/detail/create/update screens consuming your DRF API.

## Phase III · Integration, Deployment & Capstone – Weeks 18–26

WEEK	DATES	TRACK	FOCUS & KEY TOPICS
18	14 May – 20 May 2026	Security	<b>Full Stack Integration &amp; Security</b> – REST best practices, refining API contracts, JWT auth in Django/DRF, CORS handling, protected endpoints.
19	21 May – 27 May 2026	Flutter + JWT	<b>Token-Based Client</b> – Token storage, attaching tokens to requests, refresh/expiry handling, guarded screens and logout flows.
20	28 May – 3 Jun 2026	Optimization	<b>Backend Optimization &amp; Reliability</b> – Query optimization, select_related/prefetch_related, error handling, logging, basic monitoring concepts.
21	4 Jun – 10 Jun 2026	Deploy Django	<b>Django Deployment</b> – Production settings, static/media handling, environment variables, Gunicorn/Nginx flow, deploy to cloud.

WEEK	DATES	TRACK	FOCUS & KEY TOPICS
22	11 Jun – 17 Jun 2026	Deploy Flutter	<b>Flutter Builds</b> – Web build, Android APK/AAB basics, iOS build concepts, environment configs (dev/stage/prod APIs).
23	18 Jun – 24 Jun 2026	Capstone Plan	<b>Capstone Planning &amp; Design</b> – Pick project domain, define features, draft API spec & DB schema, design Flutter screens and flows.
24	25 Jun – 1 Jul 2026	Capstone Backend	<b>Capstone Backend Implementation</b> – Django + DRF models, serializers, endpoints, auth; deploy first version of capstone backend to cloud.
25	2 Jul – 8 Jul 2026	Capstone Frontend	<b>Capstone Frontend &amp; Integration</b> – Flutter screens, state management, integration with capstone API, end-to-end testing, bug fixing, polish.
26	9 Jul – 13 Jul 2026	Demo & Career	<b>Wrap-Up, Demos &amp; Placement Prep</b> – Final polishing, documentation, capstone demo day, portfolio packaging, resume/LinkedIn, mock interviews & Q&A.