



COURSE SYLLABUS

Web Application Deployment and Operations with GitHub

Deploy a web application from GitHub to Vercel, configure a custom domain with DNS and HTTPS, manage environment secrets, release through protected pull requests, and set up monitoring, alerts and backups.

\$1,000 per person

10 course hours (on-demand video and labs) plus 1 hour of coaching

On-demand asynchronous training with online support, plus 1 hour of coaching.

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Credential type	Certificate, issued by We Can Code IT
Clock hours	11 (10 course hours plus 1 hour of coaching)
Price	\$1,000 per person
Time	10 course hours (on-demand video and labs) plus 1 hour of coaching
Delivery	On-demand asynchronous training with online support, plus 1 hour of coaching.
Credential	Certificate of completion from We Can Code IT
How you earn it	You earn the certificate by completing the labs and a capstone launch of your app on a custom domain that passes the launch checklist, reviewed by your coach.
Who it is for	This course is for developers, citizen developers, IT staff, and entrepreneurs and founders who need to deploy and operate web applications, including apps built with AI tools.
Prerequisites	Introduction to GitHub with AI, or working knowledge of GitHub pull requests; A web app in a GitHub repository (a reference app is provided)
Requirements	Any computer with a modern browser; Free accounts for GitHub, Vercel and Supabase for the course labs, and a free uptime monitoring service; apps your employer runs commercially need paid hosting plans (Vercel's free Hobby plan is for non-commercial use); Labs use a public practice repository, since branch protection requires a paid plan for private repositories; do not put employer code in it. Teams on a paid GitHub plan can use a private repository.; A domain you own (a paid registration from a domain registrar) or a subdomain your employer already owns

About this course

Building an app is half the job; putting it in front of real users safely is the other half. In this course you take an app from a GitHub repository to a live address on your own domain. You configure preview and production deployments, DNS and HTTPS, environment variables and secrets, a release path from a test branch to production, and the monitoring, alerts, usage limits and backups that keep it running.

What you will be able to do

- You will be able to deploy a web application from GitHub to Vercel with preview deployments for every pull request and production deployments from the main branch.
- You will be able to configure a custom domain with DNS records and HTTPS without disrupting existing email records.
- You will be able to configure environment variables and secrets for preview and production, and rotate an exposed key.
- You will be able to release through GitHub with a protected promotion from a test branch to production, and roll back a bad release.
- You will be able to configure uptime and error monitoring and alerts, back up and restore a database, and check an app against its hosting plan's usage limits.

Syllabus

Module	Hours
1. Hosting, DNS and HTTPS architecture Hosts and builds, Domains and DNS records, HTTPS certificates, Builder hosting compared with your own host. Lab: You will map where each part of your app runs today and what must change to host it yourself.	1 h
2. Deploying from GitHub Connecting a repository to Vercel, Build settings, Preview deployments per pull request, Production from main. Lab: You will deploy your app and get a preview link on a pull request before the change goes live.	1.5 h
3. Custom domains and DNS A, CNAME and TXT records, Subdomains, HTTPS, Protecting MX email records. Lab: You will point a subdomain at your app with HTTPS working and existing email untouched.	1 h
4. Environment variables and secrets Environment variables, Preview and production settings, GitHub Actions secrets, Finding and rotating an exposed key. Lab: You will move every key out of your code, then rotate one that was exposed on purpose.	1.5 h
5. Releasing through GitHub Test and main branches, Protected promotion pull requests, Tags and release notes, Required checks before deploy. Lab: You will promote a change from a test branch to production through a protected pull request with release notes.	1.5 h

6. Monitoring, rollback and backups

1.5 h

Uptime and error monitoring, Logs, Instant rollback, Database backups, Usage limits and spend alerts.

Lab: You will configure an uptime alert, back up your database, check your app against its plan's usage limits, ship a broken release, and roll it back.

7. Capstone

2 h

Deployment, Domain and HTTPS, Secrets, Release path, Monitoring and backups.

Lab: You will launch your app against a written launch checklist and review it with your coach.

Coaching sessions

1 h

1 hour of coaching. Your coach reviews your capstone with you and answers questions as you work. Teams pool their hours into group sessions, so a team of 6 shares 6 hours of group coaching.

Live online or in-person sessions are available for an additional fee. Email admissions@wecancodeit.org for details.

Provider

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