

# Full-Stack Web Development

A tech bootcamp for the Isle of Man



## Fast-track training for tech success

Through the Department of Enterprise, the Isle of Man Government has teamed up with CodeClan and University College Isle of Man to bring game-changing skills to businesses and individuals.

In just 12 weeks, trainees will gain in-demand skills to fast-track their careers into web and software development roles.

## About CodeClan

Founded in Scotland, CodeClan is a not-for-profit organisation on a mission to close the digital skills gap. CodeClan provides transformational training for individuals and teams and a pipeline of talent for industry.



CodeClan was established in 2015 to help address the digital skills gap in Scotland. Since then, they've trained almost 3000 individuals in software and web development, data analysis and more in demand skills.

CodeClan offers their bootcamp training to individuals and businesses alike, with a curriculum that focuses on industry needs.

**2015**  
Founded

**50+**  
CodeClan  
staff

**320+**  
Industry  
partners

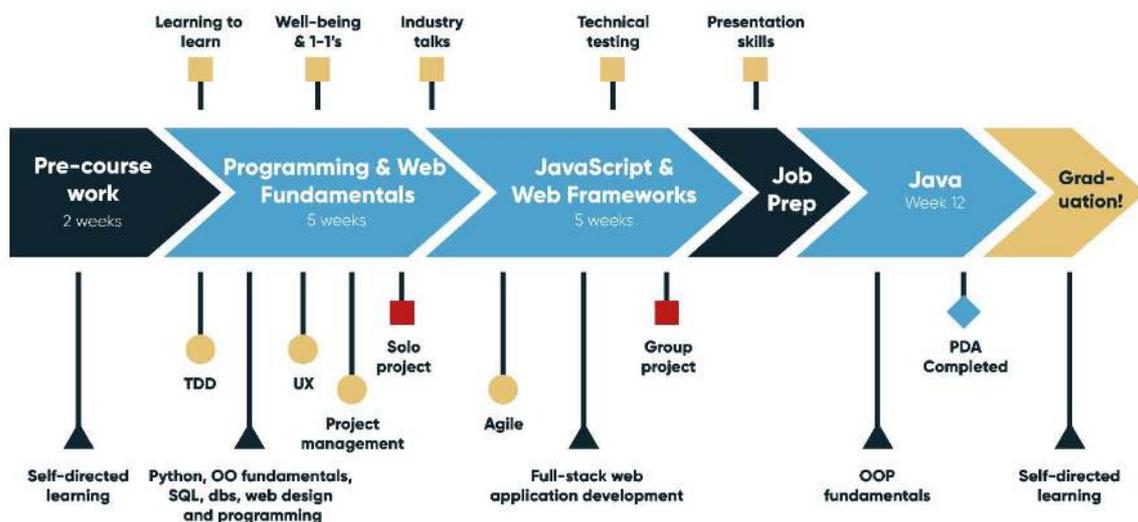
**2900+**  
CodeClan  
graduates



# Full-Stack Web Development

## Course curriculum & schedule

The Full-Stack Web Development bootcamp gives trainees the skills to work as junior software or web developers. Ideal for reskillers, this training is suitable for beginners and is an opportunity to fast-track into productive digital roles. The course includes some of the most widely used technologies in software and web development, and instils the skills and confidence to work effectively on a tech team.



**Key processes, tools and skills:** pair programming, test-driven development, client/server development, Insomnia, UX concepts, clean code concepts, REST API development, React, OO design, database design, DevOps, cloud, cyber security, Slack, Trello, Google tools, Zoom, Google Meet

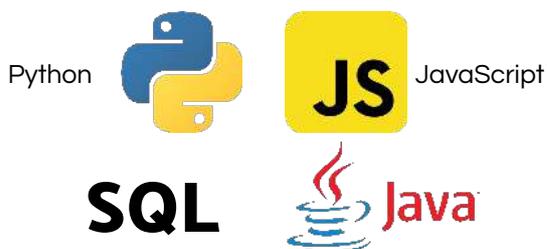
The Full-Stack Web Development course is delivered in two modules, along with two weeks' self-guided training before the course:

- Two weeks before: Pre course work. During this time, trainees familiarise themselves with the basic terminology of development and learn key programming concepts.
- Weeks 1 - 5: Programming and Web Fundamentals (Python, SQL) with a solo project in week 5
- Weeks 6 - 10: JavaScript and Web Frameworks, with a solo project in week 10
- Week 11: Job Prep, with classes and workshops on the roles, career paths and team functions in tech
- Week 12: Java, a popular and well-established language used in enterprise programming

# At CodeClan, students learn by *doing*

Through practical, hands-on training, CodeClan students learn the core languages and tools needed to do the jobs needed in the market. Just as importantly, CodeClan teaches the principles and instills the growth mindset needed to pick up additional technologies right after students graduate.

## Languages



## Tools



## Soft skills

- ✓ Pair programming
- ✓ Group projects
- ✓ Working in an agile environment
- ✓ Presenting skills
- ✓ Written & verbal communication

## Wellbeing

- ✓ Growth mindset
- ✓ Understanding stress, burnout, and the importance of relaxation
- ✓ Tools to cultivate a calm mind
- ✓ Healthy rhythms in learning (on involvement, letting go, movement, sleep)
- ✓ Wellbeing 'habits' to support learning
- ✓ Cultivating supportive relationships to improve teamwork

## Learn how to learn...

This is a core principle of what CodeClan does. Students are coached *how* to learn: new technologies, languages, frameworks, libraries and more. That's why you'll find CodeClan graduates in industry, working with technologies that they haven't necessarily learned on the course, like .NET, C#, and more.



## Course delivery

The course will be delivered in-person, with limited remote sessions for guest speakers. CodeClan's typical instructor to student ratio is 1:7.

Outside of the classroom the Learning Support team will provide support to students with additional support needs, reasonable adjustments, and coach all students in successful learning and objective setting.

## Class times and learning activities

The course runs Monday to Friday, with classes starting at 9am and finishing at 4:30pm.

A typical day will consist of the following:

- Morning stand up where students are encouraged to discuss their progress and any blockers, as well as the schedule for the day's training
- Instructor led code-along sessions where new topics are explored. Delivered live with one instructor leading the class and another there to support and fix bugs
- Pair programming & labs where the trainees have the opportunity to practice what they have learnt, solve problems together and explore topics further
- Homework, to consolidate the day's learning, usually takes around an hour

Once a week:

- Mentoring and revision sessions at least once a week per student (if needed)
- Industry speakers, alumni talks, wellbeing sessions, or socials to increase networking and industry knowledge.



## Technical requirements

The course is suitable for beginners. Trainees need access to a MacBook with the necessary privileges to install a number of free, industry standard tools such as VS Code. CodeClan can provide a full list before the course starts. The MacBook needs to have at least 8GB RAM and can comfortably run the latest operating system. If the laptop is older than 2014 please check with us to see if it is suitable to use.

Alternatively CodeClan can rent macbooks with the necessary software installed.



## Accreditation and certification

All students will be given the opportunity to gain a Professional Development Award in Software Development SCQF level 8 accredited by the Scottish Qualifications Authority, or an equivalent accreditation.

CodeClan will also provide all students with a certificate of completion.



## When is the course?

This course will begin in September 2022 until November 2022. The course will run full time, for 12 consecutive weeks. Specific start date to be confirmed.

## ...and where?

Classes will take place in-person within University College Isle of Man campus facilities. Exact location to be confirmed.

### Course cost

Course fees	£6,650 per person
Laptop rental (if required)	£300 per person

For information about funding, please contact the Department of Enterprise: <https://www.iomdfenterprise.im/contact-us/>

# FAQs

**Q:** What prior coding experience do students need to have?

**A:** The course is suitable for beginners, and the curriculum assumes no prior knowledge or experience of programming. However, we strongly encourage all applicants with no coding experience to try it before applying, through a free online course or at a free CodeClan workshop.

**Q:** Can I get a formal qualification from the course?

**A:** Yes! As well as receiving a certificate of completion, students will be given the opportunity to gain a Professional Development Award in Software Development SCQF level 8 accredited by the Scottish Qualifications Authority. This is optional and there is no extra fee for completing it.

**Q:** What is the class size and instructor to student ratio?

**A:** The class size will be 15 students maximum, and CodeClan's usual student to instructor ratio is 7:1. Typically, classes are led by one instructor, while another instructor is available for additional help.

**Q:** What support is in place if I fall behind in class?

**A:** CodeClan's instructors can offer one-to-one help in cases where a student is struggling with a topic. Additionally, CodeClan's Student Services team offers one-to-one coaching on learning, wellbeing and dealing with stress. These have proven extremely valuable to many previous students.

**Q:** Can I really learn Web Development in just 12 weeks?

**A:** At CodeClan, students gain the skills and knowledge to become entry-level developers. This means that while your practical training will help you to hit the ground running in a new career, you should also expect to continue learning in your first role after the CodeClan bootcamp.

**Q:** How much homework is involved?

**A:** Roughly 1-2 hours per evening. The goal of the homework is to get your understanding consolidated at the end of the day. Many CodeClan students chose to complete their homework task on campus, before going home for the evening.

**Q:** Why do you teach Python, JavaScript and Java?

**A:** CodeClan's curriculum has been developed in consultation with industry, seeking to teach skills that are most in demand. Having said that, CodeClan students learn *how* to learn, which has enabled many to work with technologies they didn't learn on their course, such as PHP and C#.

**Q:** Can I do a part-time job along with my CodeClan training?

**A:** This is a full-time course and you will not have time to work during regular hours. The pace can at times be intense, and while students have time off over the weekend, we strongly recommend that you use that time to relax.

# Get started

- For admissions queries, please contact CodeClan's admissions team:  
[admissions@codeclan.com](mailto:admissions@codeclan.com)
- For funding queries, please contact the Department of Enterprise:  
[www.iomdfenterprise.im/contact-us](http://www.iomdfenterprise.im/contact-us)



"Working with Code Clan has allowed us to develop and grow the most important asset we have, our people. Together we've been able to nurture new tech talent, create a first class engineering team at Tesco Bank whilst playing a pivotal role in bridging the digital skills gap in Scotland."

Ian Skelly, Tesco Bank

"At Baillie Gifford we believe in continuous learning, which is a mindset that CodeClan graduates already have... Bravery and confidence is something that we highly value at Baillie Gifford - we want out of the box thinkers and people who want to continue to learn, and these are qualities that graduates from CodeClan tend to have."

Yvonne Robertson, Chief of Staff @ Baillie Gifford



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*Some of our partners:*

