



INFORMATION PACK

Professional Software Development_

16-week full-time course



CONTENTS

About Us
Our Course
The Professional Development Award
Careers
Partners
Student Well-being



About us

CodeClan is a digital skills academy and was established in 2015 to help accelerate Scotland's progress in building a high-performing digital economy.

We've got the support of The Scottish Government, ScotlandIS, and Skills Development Scotland and are the first digital skills academy in the UK to become a Scottish Qualifications Authority (SQA) approved centre. This means we are the only UK academy to offer a Professional Development Award in Software Development at SCQF Level 8 recognised and endorsed by employers across Scotland.

Why study with us?

Here at CodeClan we are passionate about sharing our love for well-crafted code. We've created an intensive, immersive course to help people access the knowledge and skills to become excellent coders themselves, delivering it in a friendly, easy to digest manner and making it accessible to people from all sorts of backgrounds.

Our team is dedicated to pushing the boundaries to make that happen. Our culture is friendly, informal but hard-working. So, if you want to learn from a great team of instructors in an environment where you will be challenged, where you will learn from your peers, and where you'll be pushed to go outside your comfort zone, then join us at CodeClan.

Small class sizes and high instructor to student ratio provides an exceptional learning experience.

Courses taught by experienced developers with recognised teaching qualifications.

Support with finding a career with our employer network.

Access to speaker events and tech meet-ups.

Fully supported by the SQA.

Career support provided by our Student Well-being team.

The Professional Software Development course

Our full-time, project-based software development course is fast-paced and stimulating – just like your new career in the demanding tech industry will be.

Working on a high ratio of instructors to students, our teaching approach supplements and complements more traditional routes.

Our aim is to create employable, entry-level developers with a solid understanding of software development techniques including Object-oriented programming and Test Driven Development, delivered through best practice and cutting-edge technologies.

COURSE OBJECTIVES:

During the intensive, immersive 16-week programme, you'll be exposed to a broad range of technologies, methods and tools in classes delivered by instructors with a passion for learning and technology. Focus is on learning core concepts rather than the specifics of any one language, allowing you to easily adapt to new languages and environments.

As a student, you'll be exposed to Agile methodologies and will take part in individual and collaborative group assignments. This approach will enable you to rapidly integrate into and be productive within a wide variety of business and technical environments.

YOU'LL GET



8000

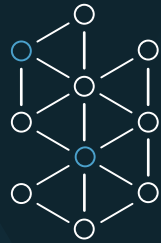
hours of coding

20

career sessions

8

wellbeing sessions



14

networking opportunities



3-4

PROJECTS

5

opportunities for

1-1



COURSE DELIVERY:

- High instructor to student ratio
- Daily stand-ups
- Code-along interactive teaching style encouraging questions and collaboration
- Paired-programming labs and exercises
- Group projects working to strict deadlines
- Attending industry talks and coding sessions
- Participation in external hackathons and tech meet-ups
- Project presentations to practice communication skills
- Continual self-study to reinforce learning

COURSE TOPICS:

- UNIX and Git
- Object Oriented Programming
- Test Driven Development
- Database design, creation and querying using SQL (PostGres)
- HTTP and web programming (Flask)
- JavaScript (front-end and back-end)
- JavaScript TDD (mocha, chai)
- Event-driven programming
- Full-stack JavaScript apps (Express, Mongo)
- Front-end web framework (React)
- Statically typed programming (Java)
- Web development with Java

* Course topics subject to change

Learning is consolidated through application of:

- Embedding TDD throughout
- Applying OO design principles
- Learning by **doing**
- Pair programming and a group project
- Self-directed project weeks

Projects:

- You'll complete three different projects to create dynamic, responsive applications based on a choice of briefs including:
 - A dynamic web application using a lightweight web framework (Python, Flask, SQL);
 - A full stack JavaScript web application (using React, Express and Mongo);
 - Java web application

Not included in the course:

- Advanced database techniques (warehousing etc)
- Data science and statistical programming (R, SAAS)
- Advanced design patterns
- Embedded systems programming
- Theoretical computer science topics
- Mathematics topics

Professional Software Development Award

We are the first UK digital skills academy to become an SQA Approved Centre offering the Professional Development Award (PDA) in Software Development – a professional level qualification recognised and endorsed by employers across Scotland and accredited by the SQA – as part of our core course.

We are currently offering the PDA at:

**Lvl .08 = Equivalent level to HND/
Diploma of Higher Education**

The PDA matches our course content in software development to national standards. We offer students on our 16-week immersive software development course the chance to gain this nationally recognised qualification at SCQF Level 8.

'We work with employers and industry to ensure that our SQA qualification accurately reflects learners' knowledge and skills and provides routes to jobs or further study.'
- Sara Dodd, CodeClan

This PDA has been designed as a Group Award to enable students to achieve internationally recognised credits as determined by the Scottish Credit and Qualifications Framework (SCQF) – the national framework that describes all relevant programmes of learning and qualifications in Scotland.



Careers

Career Support

At CodeClan we will support you in finding a job through our employer partners. Our employers are actively engaged with and support the learning of CodeClan students by providing guest speakers, attending employer-student events and offering site visits.

Our employers are committed to:

- Meeting with each cohort informally four weeks prior to course completion
- Taking part in a 'matching' service between employers and interested candidates
- Presenting their organisation and their job opportunities



WE'RE PASSIONATE ABOUT
BUILDING A GREAT TECH COMMUNITY

We're based at the heart of Scotland's tech community, working with all sizes of companies to share the latest ideas and best practice. Whether you train in Glasgow or Edinburgh, you'll get the chance to interact and work with a wide variety of people, participate in internal events, tech meet-ups, conferences and hackathons.

PARTNER PROGRAMME



Zonal

TESCO
Bank

iZettle

SAAS
Funding your future



Registers
of Scotland

NHS
SCOTLAND

freeagent

SIMUL8



Castlight

tvSquared

SCOTTISH WIDOWS



PRUDENTIAL

cultivate

We work with over 280 Employer Partners across Scotland.

Student Wellbeing



Your happiness and wellbeing are important to us.

That's why our student wellbeing officer is on site to offer emotional support on those days when you need a little encouragement. They'll be there if you need someone to talk to over a cuppa.

If you're actively looking to join and contribute to the Scottish tech sector, CodeClan is a great stepping stone towards making that dream a reality. Networking is key in this industry, so speak to us about what tech meet-ups are happening, what events you should be going along to and the best ways to network if this is new to you. There's a lot going on so we'll help you make the best use of your time and help you engage with potential employers.



READY TO APPLY?

VISIT:

www.codeclan.com/apply

Edinburgh Campus:

37 Castle Terrace
Edinburgh, EH1 2EL

Glasgow Campus:

Clockwise, 77 Renfrew St
Glasgow, G2 3BZ

