

Digi2Cloud GmbH
The Circle 6
Zürich Flughafen
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IT Boot Camp Training Program

Nr	#080101
Title	Software Engineering for Beginners
	(.NET, C#, APIs, ASP.NET, Security)
Date	13.5.2024 - 7.6.2024
Duration	20 working days
Language	English
Fees	7500 CHF zzgl. MwSt
Place	First 2 days in Zürich by Digi2Cloud, remaining days per online 8 hours daily, from 09:00 to 17:30 (1/2 hour break)
Requirements	No prior knowledge required
	 Your own computer able to run latest version of Visual Studio OR Visual Studio Code
Key Learnings	Computer Science basics and C# programming
	 Networking basics
	C# language
	 .NET environment
	Object oriented programming
	 Async & multithreaded applications
	 Data structures & algorithms
	Files & Sockets
	Participant of this course will have a solid understanding of
	computer science and C# and have higher than average chances
	to get a job in a Swiss job market as a C#/.NET junior developer.



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Description	Day 1: CS theory, Networking, Programming, Lego-like approach
	Day 2: Project start & setup, types, variables, control flows, array,
	List, Dictionary, statements, stack/heap, namespaces, string/String,
	Day 3: Exception handling, OOP, constructors, fields, properties,
	readonly, collections, LINQ, date & time, exercises
	Day 4: Value/reference nullability, null, as, is, explicit/implicit
	conversion, boxing/unboxing
	Day 5: async/await, Task, TCS/CTS exercises, Thread API, thread
	starvation, race condition, deadlock exercise
	Day 6: HTTP & text encoding + exercises
	Day 7: File API, Socket API
	Day 8: HTML/CSS basics & exercises
	Day 9: IDisposable, locking, structs, mutability & immutability
	Day 10: Trees & recursion exercises
	Day 11: Deadlock, race condition, thread starvation exercises
	Day 12: lambdas, Action, Func, delegates, events + WinForm
	exercise
	Day 13: Records, code generation, collection expressions
	Day 14: Local functions, indexers, structs, records, comparison,
	hash code
	Day 15: HTTP routing & middleware
	Day 16: Code organization & conventions
	Day 17: git lecture
	Day 18: NuGet lecture, Github Copilot introduction
	Day 19: Project overview, team & individual coaching
	Day 20: Project overview, team & individual coaching

Zürich, 04.04.2024