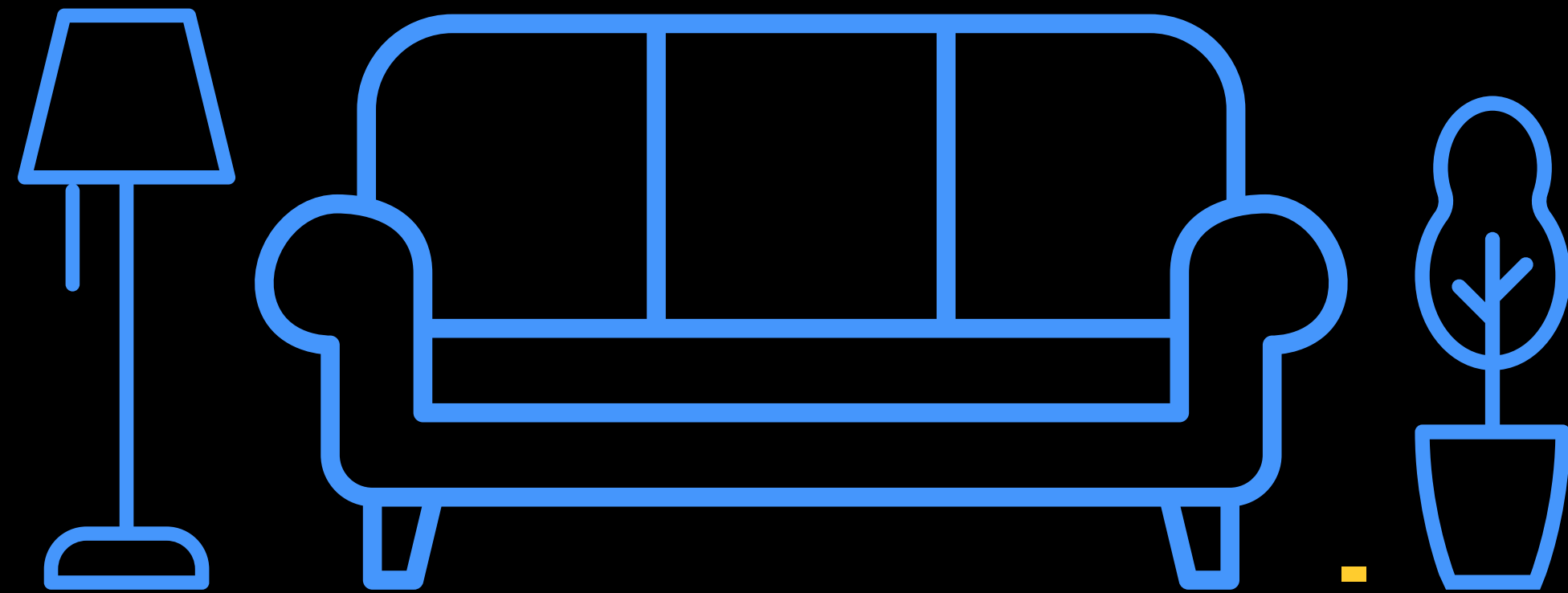


# CodeFest 21

-Indoor Edition-



JUNE | 06<sup>th</sup> - 10<sup>th</sup>

## 06.6

18:30-20:30 Continuous Integration & Continuous Deployment with Github Actions  
Yael Balla

18:30-20:30 Senior Developers - Level Up Your Software Architecture Skills  
Victoriya Kalmanovich

## 07.6

18:00-20:00 Infrastructure for Machine Learning Applications in Go  
Natalie Pistunovich

18:30-20:30 Thinking in Languages  
Sara Hillel

## 08.6

18:30-20:30 A Beginner's Guide to Containers: How to Create Your First Containerized Application  
Jaffa Sztejn bok

18:30-22:00 From Powershell To Assembly  
Oryan De-Paz

20:00-22:30 Circuit Playground Bluefruit Workshop  
Dafna Mordehai

## 09.6

18:30-20:30 My first NLP classifier - Natural Language Processing Pipeline workshop  
Nitza n Gado & Adi Shalev

20:00-22:30 Java Code Instrumentation for Beginners  
Ira Chrkes Levinshteyn

## 10.6

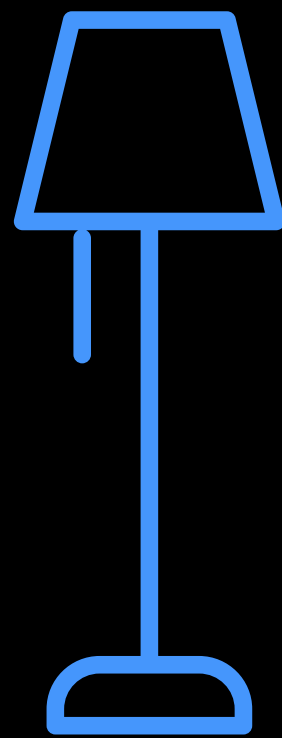
18:00-21:00

Cocktail  
F e s t  
&

Ask Me

Anything  
Session

with Michal  
Braverman  
Blumenstyk



06.6

18:30-20:30

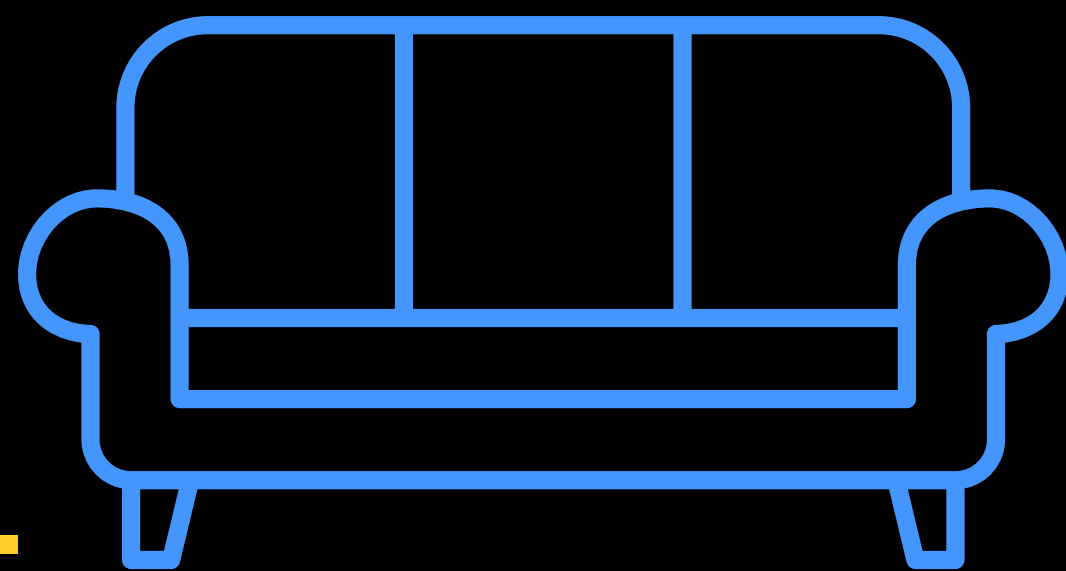


## Continuous Integration and Continuous Deployment with Github Actions

Yael Balla

Head of Engineering, Balance

Still doing manual steps to test \ deploy your code? Well, this is the workshop for you. In this workshop you will learn about CI/CD principles, and how Github Actions can help you deploy quickly and safely, with real word examples of how we use it in Balance. At the end of this workshop you will be able to create your own Github Actions job, and you will understand the actions concepts that enable you to easily automate every step of the CI/D process.



06.6

18:30-20:30

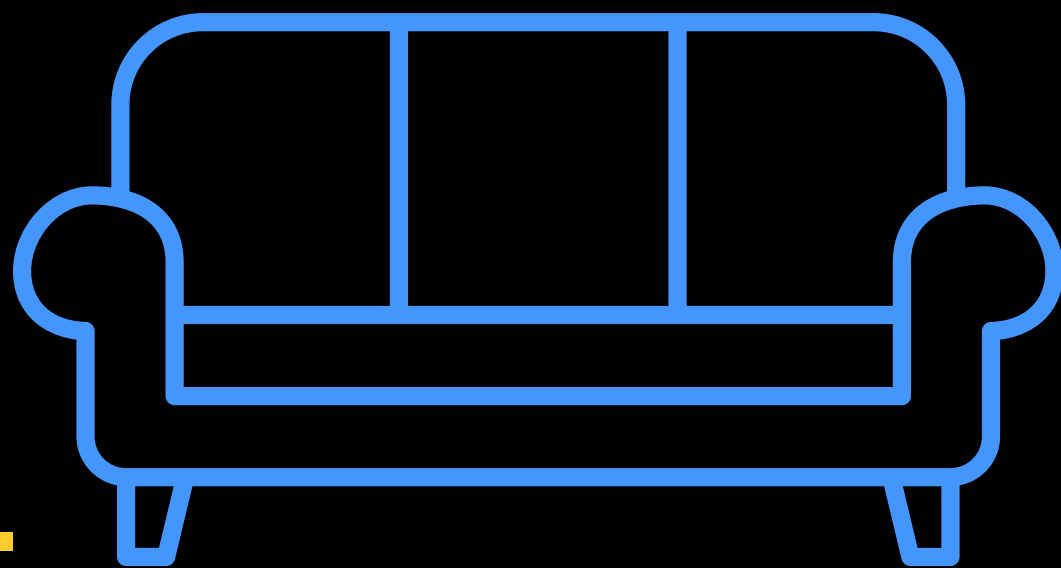


## Senior Developers - Level Up Your Software Architecture Skills

**Victoriya Kalmanovich**

Platform & applications engineering manager, Aspectiva

Senior developers looking for an architect role? This workshop is for you! In this workshop we'll go over the fundamentals of software architecture, we'll see how software architects make decisions, what considerations we must keep in mind and how you, as an architect, can become a key player in your organization. And of course - we'll do plenty of hands on exercises in order to step into the architect's shoes.



07.6

18:00-20:00

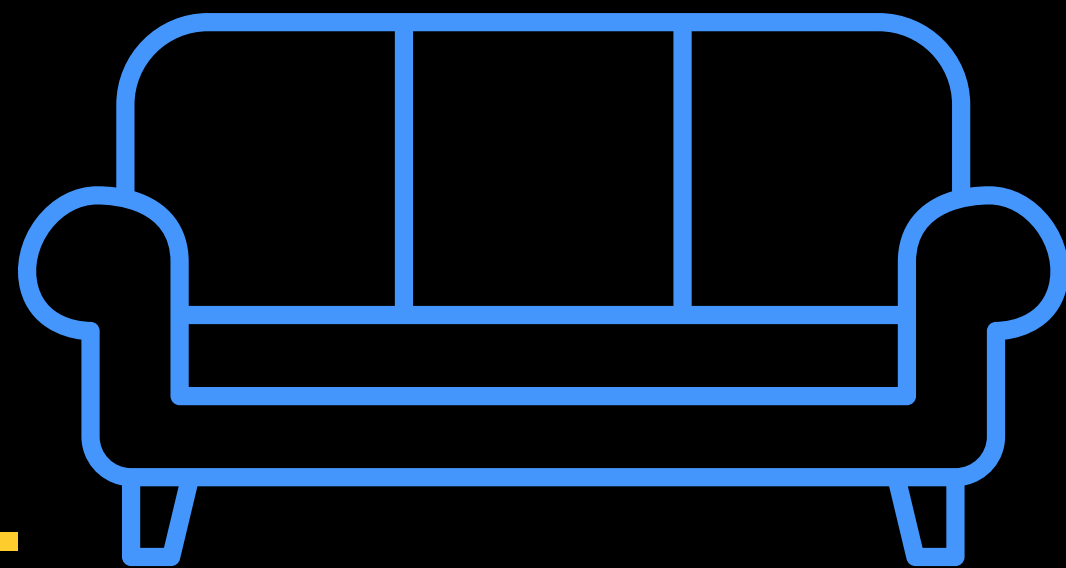


## Infrastructure for Machine Learning Applications in Go

Natalie Pistunovich

Lead Developer Advocate, Aerospike

Curious about how profilers can estimate the time spent in each method or follow At the heart of Machine Learning is the model's code, but it only accounts for a fraction of the overall code of a production system and the rest is the infrastructure needed to power and utilize it. In this workshop, we will focus on the infrastructure of a Machine Learning application written in Go and integrate the systems needed to deploy a ML model at scale.



07.6

18:30-20:00



## Thinking in Languages

Sara Hillel

Polyglot Software Engineer, Walnut

"A programming language is a tool that has profound influence on our thinking habits" E. Dijkstra

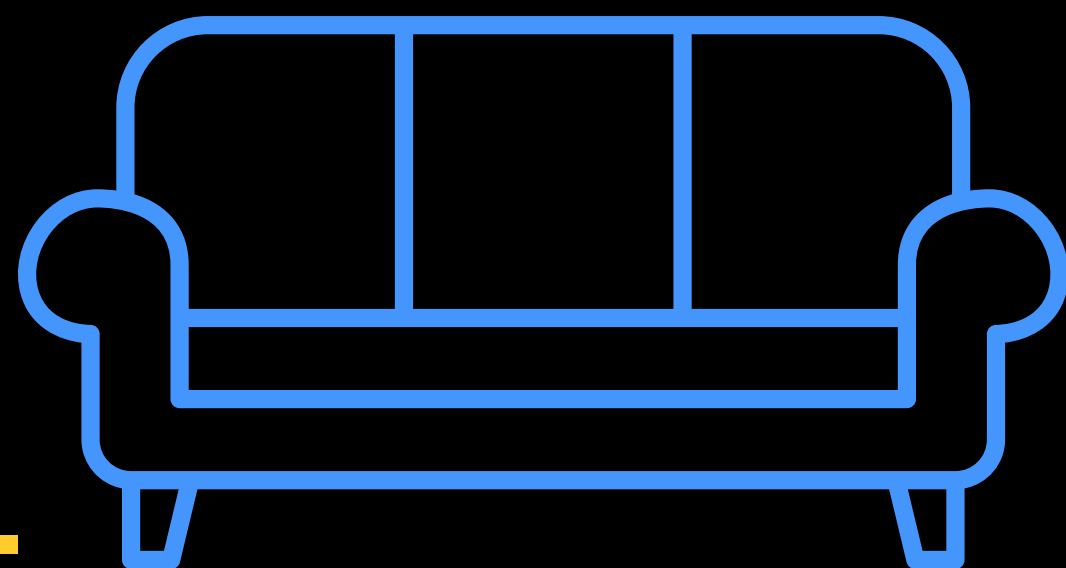
Whenever I learn a new programming language, I understand my original language much better.

Programming is ultimately a matter of understanding, and understanding is about ideas. This is exactly what we will do in this session - we will be introducing ourselves to programming patterns and models as we work with different programming languages. We will learn how to approach a language and be effective at it.

The first steps in a new language are the most difficult; we will only do a few of them, but we will do them together. It will be fun.

Prerequisites:

- \* Curiosity
- \* A deep understanding of at least one programming language and paradigm



08.6

18:30-20:30



## A Beginner's Guide to Containers - How to Create Your First Containerized Application

Jaffa Szejnbok

SW Architect & Developer Advocate IBM Alpha Zone Accelerator

If you are starting your journey into the containerized world, the first thing you'll come across is Docker. This Webinar will give you a quick start: it will provide you with the tools to play with Docker. Also you will get a glimpse to orchestration solutions like Kubernetes and Openshift.

Docker container technology separates applications from the underlying Operating System and infrastructure. Containers technology virtualizes the Operating System (OS), and thanks to it only the application, and specific dependencies like libraries and binaries are being packaged in the image. Starting such an image is much faster omitting start of an OS. In addition the image now is very portable among various host servers running the  $\Psi$  Container Engine.

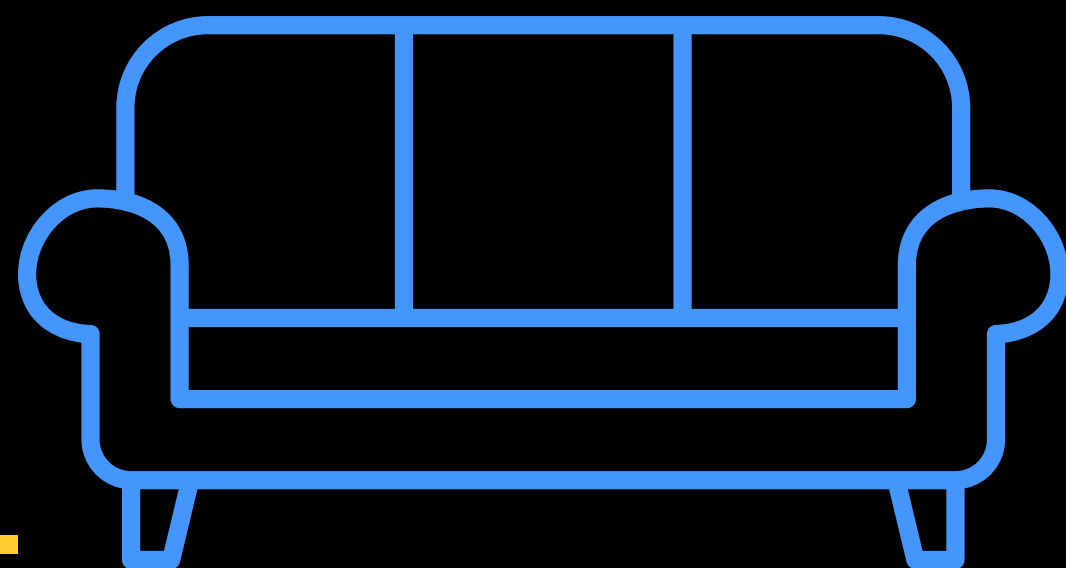
What will you learn?

In this webinar you will learn the fundamentals and basic concepts of Containers, Docker, Kubernetes and OpenShift. The overview will be followed by a hands-on lab where you will get to build Container/Docker images and run them.

Who should attend?

Developers and those interested in DevOps, IT, containers and application deployment.

The workshop is practical, bring your laptops



08.6

18:30-22:00



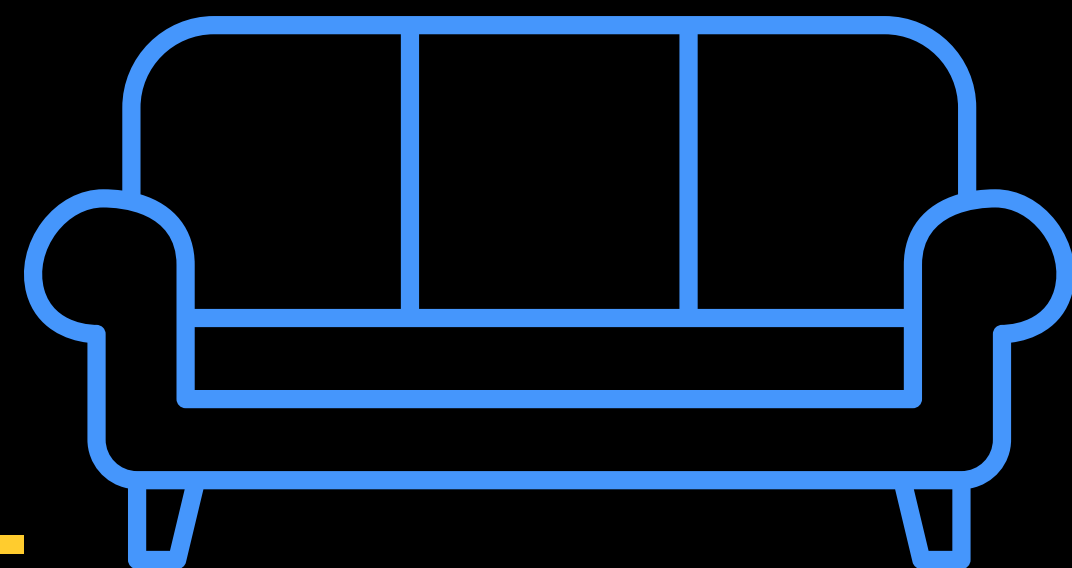
## From Powershell To Assembly

Oryan De-Paz

Low Level Researcher & Developer, Symantec

Join me in a magical end-to-end Reverse Engineering journey!

In this training, we will get familiar with Powershell scripts and functions, how to locate their Win32 Api implementation and eventually reverse some of them in order to learn how they work.





08.6

20:00-22:30



## Circuit Playground Bluefruit Workshop

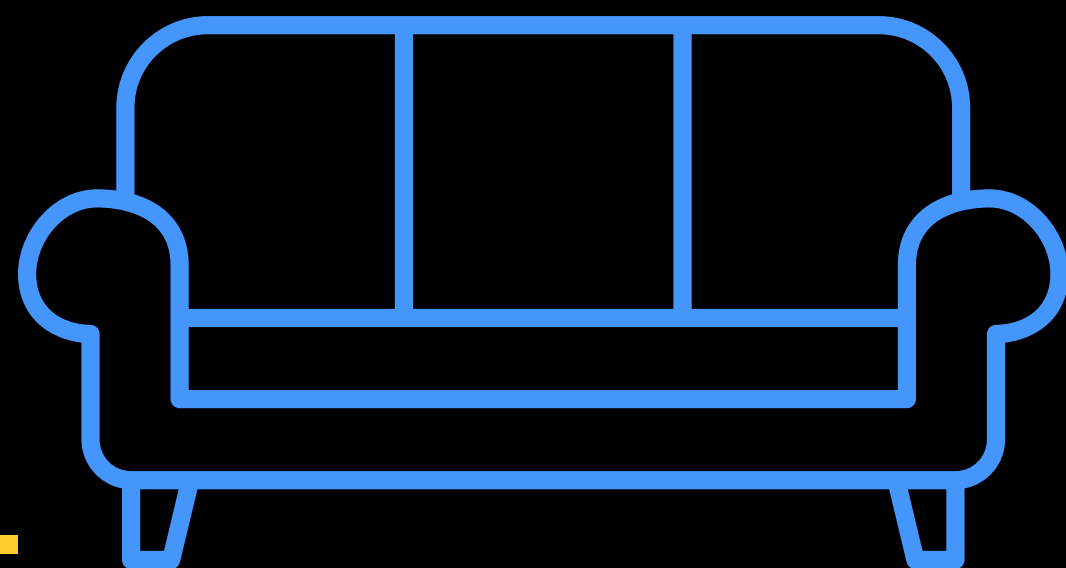
Dafna Mordehai

Senior RT Embedded Software Engineer

Circuit Playground Bluefruit is a small board designed and manufactured by Adafruit. It's main chip is the nRF52840 that supports Bluetooth Low Energy and it is packed with sensors, LEDs and other peripherals.

It can be programmed in many ways: from visual programming using MakeCode, to C/C++ with Arduino or even using Python!

In this workshop we will learn about the board capabilities and how to program it and create various applications.



09.6

18:30-20:30



## My first NLP classifier - Natural Language Processing Pipeline workshop

**Nitzan Gado**

Senior data scientist, intuit

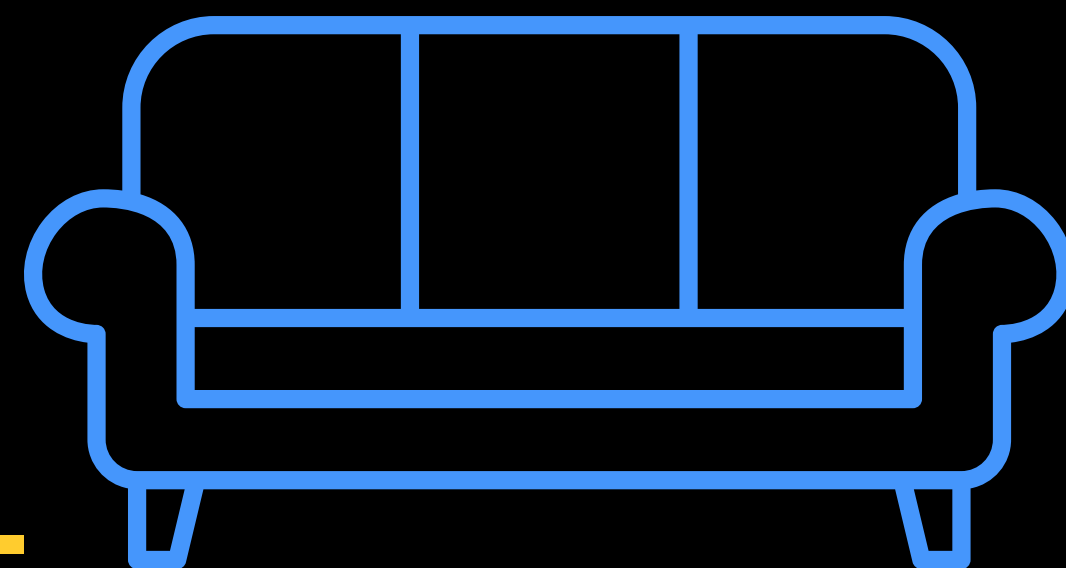
**Adi Shalev**

Senior data scientist, intuit

In this workshop, you will build a text classifier.

To create the classifier, we will create a NLP pipeline:

We will explore the data, Clean it, Convert it into vectors in several ways, Train machine learning classifiers, Test it and compute ML metrics, And use it for new examples.



09.6

20:00-22:00



## Java Code Instrumentation for Beginners

Ira Chrkes Levinshteyn

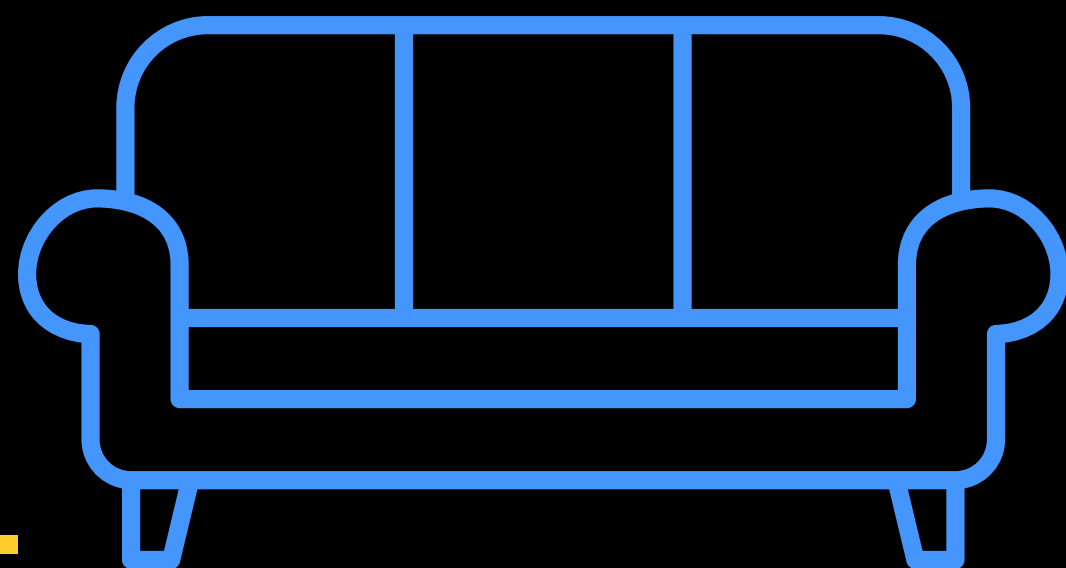
Senior software engineer, Synopsys

Curious about how profilers can estimate the time spent in each method or follow memory allocations?

One of the most common ways is to use instrumentation. Instrumentation is the addition of code to methods for the purpose of gathering data. Profilers inject code into the software under test and extract information for performance analysis. Agents and event loggers also use this strategy.

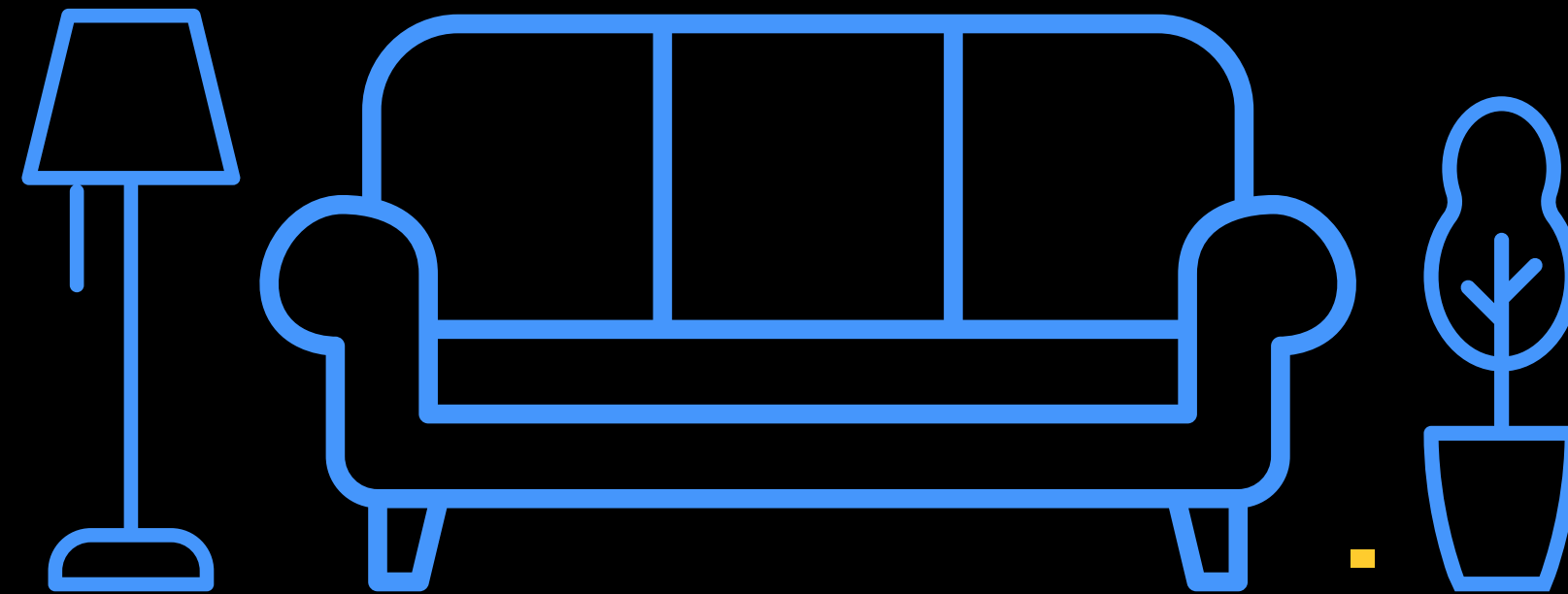
In this workshop we will go over the basics of JVM, Java bytecode, Java agents, and code instrumentation. By using the Java Instrumentation API, we will build a simple "profiler" that counts the number of times a particular method was invoked. You will learn how to inject code into a Java application and follow the path of the instrumentation to see in detail the way it works.

Basic knowledge of Java is required.



# CodeFest 21

- Indoor Edition -



THANK  
YOU!