



#### OVERVIEW

- Participants will understand:
  - Why DDD is an effective tool for designing evolutionary architectures.
  - The basic concepts of DDD (DDD 101).
  - The importance of the Ubiquitous Language.
  - How DDD can effectively be combined with multiple technical architectures.

# OVERVIEW

- Participants will be able to:
  - Leverage Event Storming to arrive at a candidate domain model.
  - Translate an Event Storm into User Stories.
  - Effectively apply DDD patterns to design modules that can be evolved into event-driven microservices.
  - Effectively leverage Hexagonal Architecture to implement modules that can be evolved into event-driven microservices.

#### **INSTRUCTOR: MATT STINE**

- **Executive Director Software Engineering** JPMorgan Chase
- 20 year Enterprise IT veteran developer / architect
- 7 years focused on Cloud Native Platforms and Architecture
- Frequent conference circuit speaker
- Host of Software Architecture Radio http://softwarearchitecturerad.io
- I wrote a little cloud book... https://www.oreilly.com/programming/free/ migrating-cloud-native-applicationarchitectures.csp



# LOGISTICS

- Visual content will be delivered via the ON24 platform (what you're seeing).
- You can ask questions in the ON24 Group Chat or Q&A Panel (preferred).
- Questions will be answered via the audio channel.
- I'll ask questions via the audio channel, you can answer via Group Chat.
- We will take fairly frequent breaks.

- Class Introduction(10 minutes)
- Why do we need DDD?(15 minutes)
- What is the Ubiquitous Language and why is it so important? (15 minutes)
- Open Q&A and Class Discussion (10 minutes)
- Break(10 minutes)

- DDD 101: Strategic Design (25 minutes)
- Open Q&A and Class Discussion (10 minutes)
- DDD 101: Tactical Design (25 minutes)
- Open Q&A and Class Discussion (10 minutes)
- Overview of Event Storming (15 minutes)

- Break(10 minutes)
- Intro to the Pizza Shop Domain (10 minutes)
- Open Q&A and Class Discussion (10 minutes)
- Pizza Shop Event Storming Exercise (20 minutes)
- Pizza Shop Event Storming Solution (15 minutes)

- Event Storming → DDD / User Stories / TDD
  (20 minutes)
- Day One AMA(10 minutes)

# DAY TWO

- Day One Recap(10 minutes)
- DDD and Technical Architectures
  (25 minutes)
- Overview of the Pizza Shop Coding Exercise Environment (10 minutes)
- Lab 1: TDD Aggregate Root: Commands with Business Logic and Invariants (25 minutes)
- Lab 2: TDD Aggregate Root: Publish Domain Events (25 minutes)

### DAY TWO

- Lab 3: TDD Repository: Create Repositories and Add Domain Events (25 minutes)
- Lab 4: TDD Repository: Rehydrate Aggregates by Reference (25 minutes)
- Lab 5: TDD Policy: Subscribe to Event within Aggregate / Create CQRS View (25 minutes)
- Lab 6: TDD Application Service: Expose Business Interface and Transactions (25 minutes)
- Lab 7: TDD Policy: Subscribe to Event from Adjacent Aggregate / Update State
  (25 minutes)

# DAY TWO

- Day Two AMA(10 minutes)
- Conclusion



