AN INTRODUCTION TO

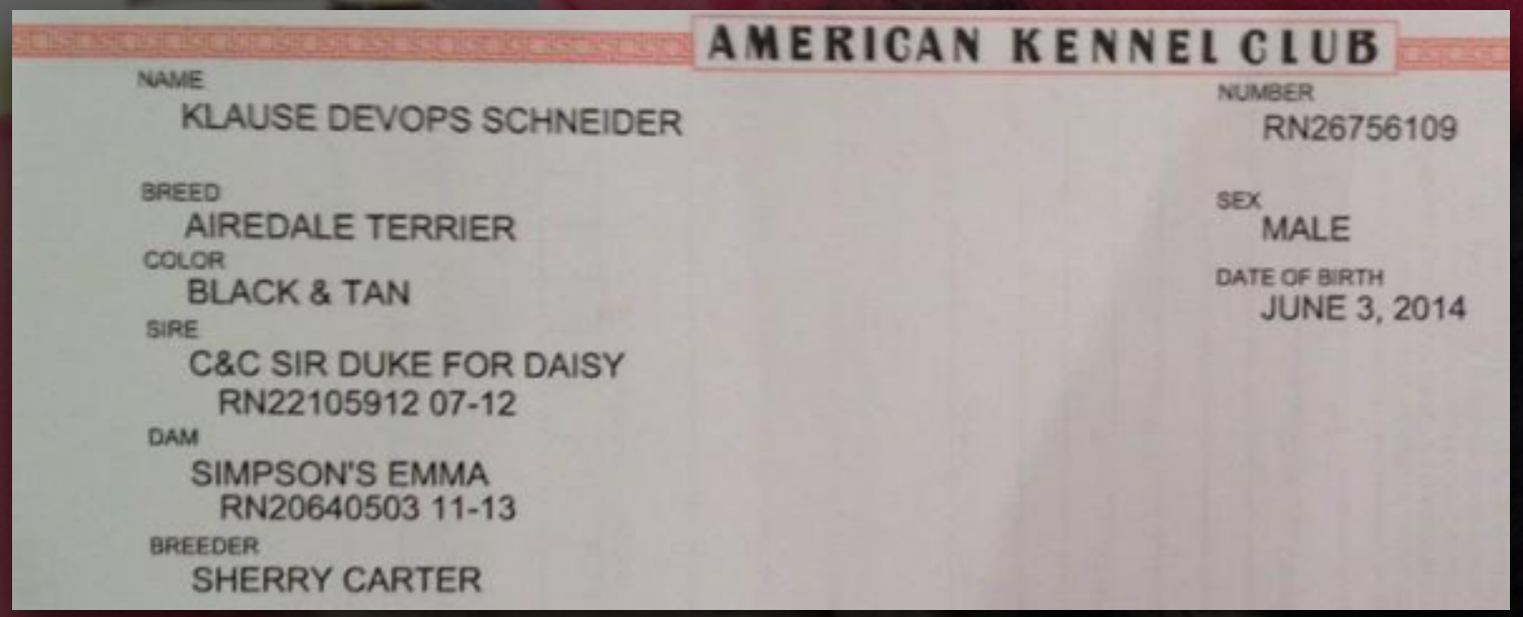
# SANE OPERATIONS

# WHO?

- James Nugent - Hashicorp, Boundary, EventStore
- Paul Stack - BMC, OpenTable
- Zachary Schneider - BMC, Boundary, Rackspace
- Seth Paskin - BMC, Entrepreneur, DELL

# ALL YOU NEED TO KNOW.

- My dog's middle name is: DevOps



AMERICAN KENNEL CLUB

NAME
KLAUSE DEVOPS SCHNEIDER

NUMBER
RN26756109

BREED
AIREDALE TERRIER

SEX
MALE

COLOR
BLACK & TAN

DATE OF BIRTH
JUNE 3, 2014

SIRE
C&C SIR DUKE FOR DAISY
RN22105912 07-12

DAM
SIMPSON'S EMMA
RN20640503 11-13

BREEDER
SHERRY CARTER

THIS IS FINE.

I'M OKAY WITH THE EVENTS THAT ARE UNFOLDING CURRENTLY.

# SO, WHEN CAN I HAVE THAT?

THAT'S OKAY, THINGS ARE GOING TO BE OKAY.

# WHY IS THIS THE STATUS QUO?

- Lack of a **CURRENT** comp-sci curriculum that marries theories and principles with **MODERN** development and operations practices
- Humans are vulnerable to **HYPE**
- Pervasive focus on **“Just Make it Work”**

# WE ARE HERE TO HELP!

- This is a no **HYPE** zone
- Please be ready to think differently
- Be ready, you are not your tools, we are going to tear apart over hyped and hipster tech

# CREATE A NEW AND DIFFERENT TECH COMMUNITY

- You will be exposed to (possibly) new ideas, technology, practices, and attitudes
- You will be equipped to put out the **TIRE FIRE**!

# AREAS OF FOCUS

- DevOps
- HYPE
- Sane Architecture / Design

# DEVOPS: WHAT IS IT?

- What is DevOps About?
  - **QUALITY PRODUCT**
- You write it. You run it. You are on call.
- Everything else is a distraction (tools, delivery, etc)

# DEVOPS: VISUAL REFERENCE

RESPONSIBILITY

PRODUCT

# THE ROLE OF OPERATIONS

- No such thing as a **DevOps Engineer**
- Provide and maintain an environment where work can be easily accomplished
- Performance Engineering and Capacity Planning
- Contributing code relating to operability, as well as adding platform features including product features
- Submitting pull requests for broken things, yes yours too

# HYPE: TECH IS AKIN TO FASHION

- IT'S THE **FUTURE!!!**
- Do you remember?
  - SOAP Web Services
  - Rich Internet Applications
  - CORBA
  - Java Applets
  - OSGI
  - OpenStack / Private Cloud
  - Silverlight
  - Windows

# HYPE: THIS YEAR'S INSANITY

- IOT
- Docker
- UniKernels
- Cloud Native
- Micro Services

# HYPE: NOT WELCOME

- Popularity does not equal **MERIT**
- The adoption of **HIPSTER TECH** will always result in a **TIRE FIRE**
- Why? Because the foundations of Hipster Tech are not rooted in research and the analysis of prior art

# ARCHITECTURE & DESIGN: THE AGE OF SOFTWARE ASSEMBLY

- You can’t expect to be able to just toss a bunch of components together and expect a solution to emerge
- This is akin to showing up to a garbage dump and expecting to be able to assemble a **Rolls Royce**

# ARCHITECTURE & DESIGN: THE RESULT OF SOFTWARE ASSEMBLY

- If you do show up to a garbage dump to do assembly you are going to get what one would expect!
  - More **GARBAGE!**
- You are also going to end up with a talent acquisition problem
- Who wants to work in a garbage dump?
  - People who are **OK** with **GARBAGE**

# ARCHITECTURE & DESIGN: THE PRINCIPLES

- Great architecture is rooted in these **FUNDAMENTAL** principles:
  - Separation of Concerns
  - Single Responsibility Principle
  - Principle of Least Knowledge
  - Composition
- Violating these principles will result in a **TIRE FIRE**

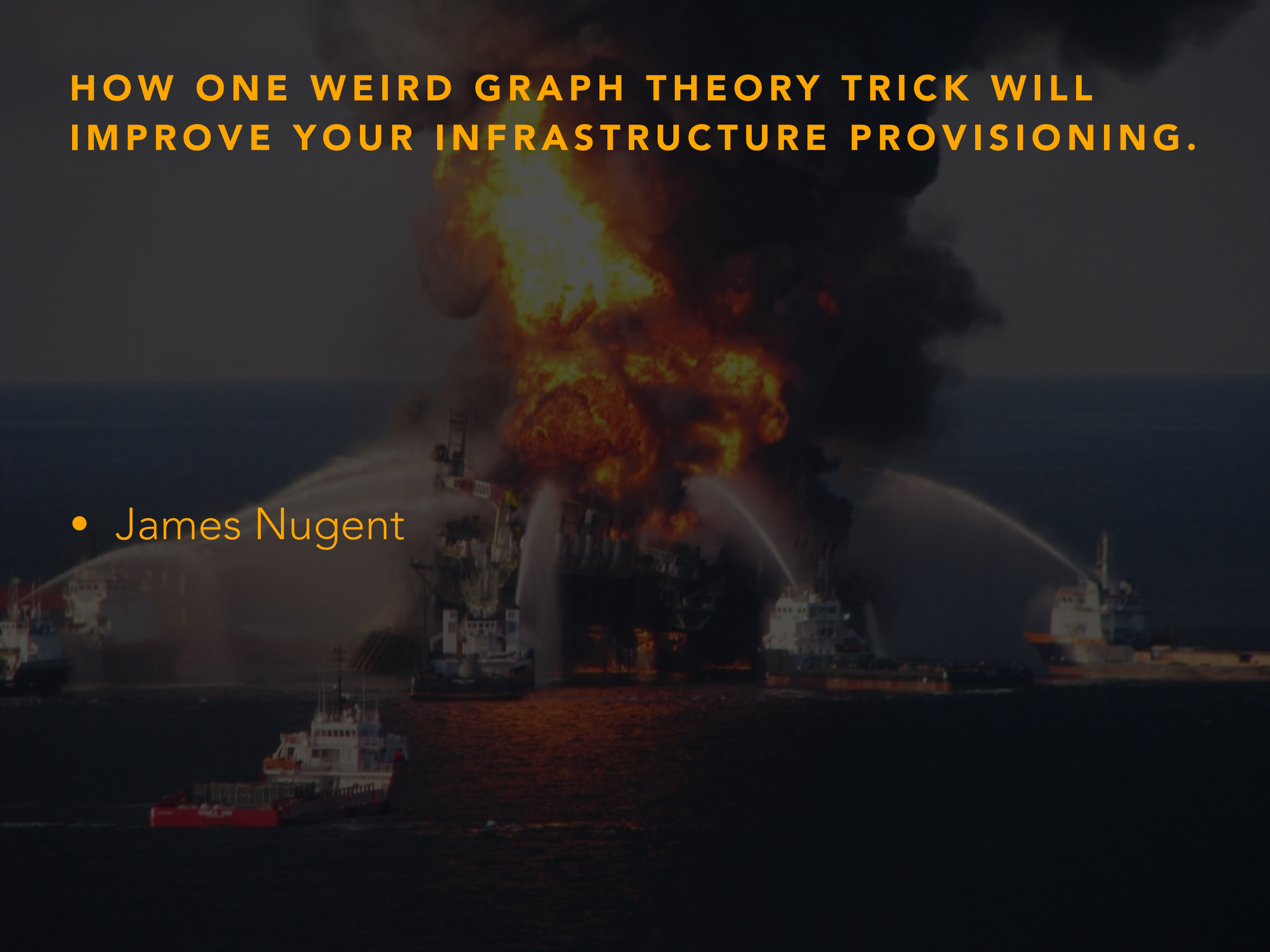
# TO REINFORCE

- We are here to address the education issue
- We are here to destroy the **HYPE**
- We are here to let you know, it’s ok to say **NO**

# Z, DO THE PULSE DEMO

- Why is Pulse important to this community?

# HOW ONE WEIRD GRAPH THEORY TRICK WILL IMPROVE YOUR INFRASTRUCTURE PROVISIONING.



- James Nugent