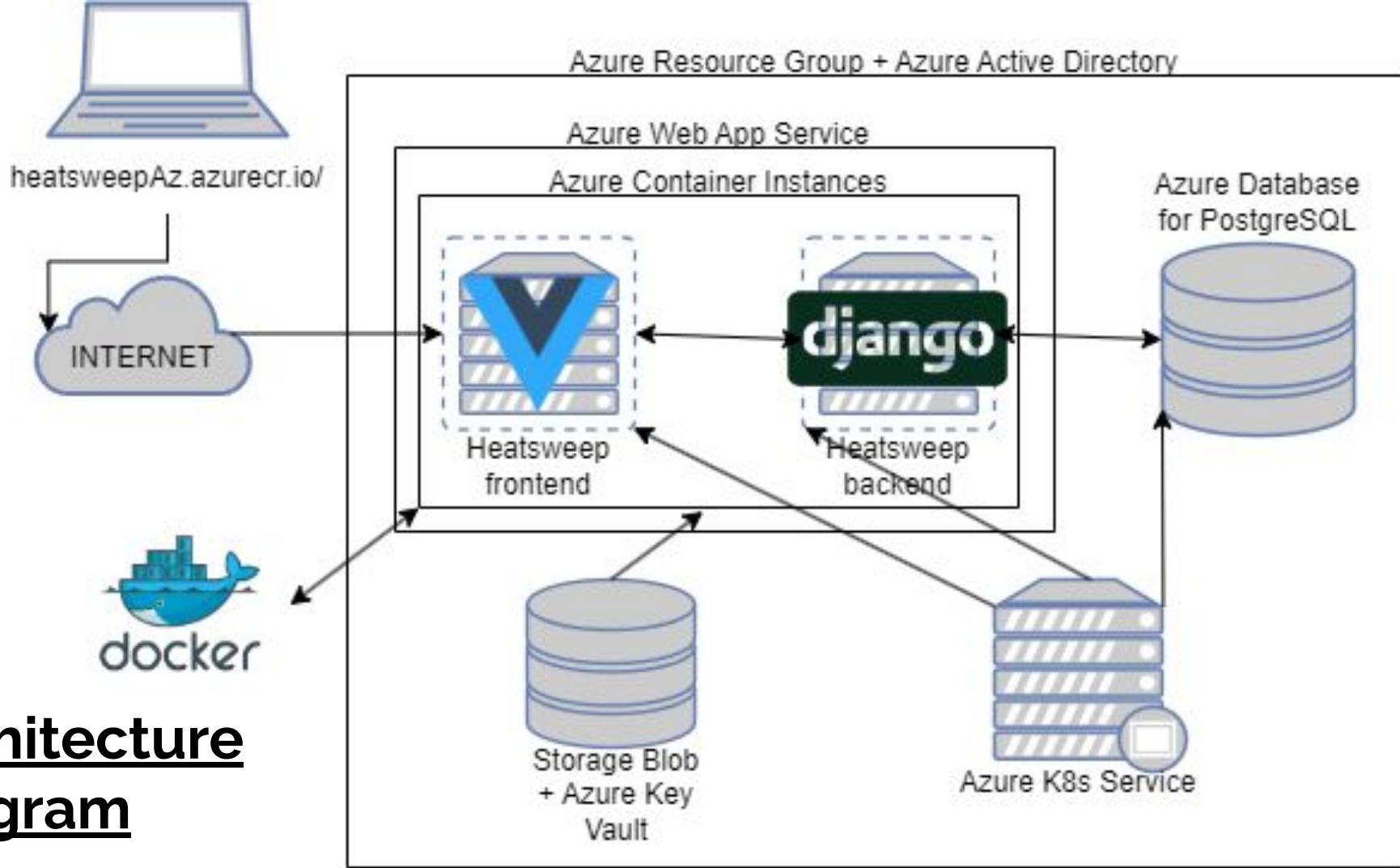# Heatsweep on Azure

By Ryan J. Skelly
IT791 - 4/5

❏ 2 Player, Minesweeper like game
❏ Simple and straightforward
❏ Hackathon Project, sans cloud
❏ Explanation in 2nd Pres.

Architecture Diagram

Primary approach to architectural pillars

- ❏ Security
  - ❏ HTTPS used for <u>secure</u> communication between client and server.
  - ❏ Azure Active Directory (AAD) used for <u>authentication</u> and <u>authorization</u>.
- ❏ Reliability
  - ❏ Azure Kubernetes Service (AKS) used for <u>container orchestration</u> and <u>automatic scaling</u>.
  - ❏ Azure Load Balancer used for <u>load balancing</u> and <u>distribution</u> of incoming traffic.
- ❏ Performance
  - ❏ Application components optimized for <u>efficient</u> resource usage and <u>minimal</u> overhead.
- ❏ Cost Optimization
  - ❏ Azure Advisor used for recommendations on <u>optimizing</u> resource usage and reducing costs, per <u>1000 Users</u>.
- ❏ Operational Excellence
  - ❏ Azure Monitor used for <u>logging, metrics, and alerts</u>.
  - ❏ Azure Application Insights used for <u>monitoring</u> and <u>troubleshooting</u> application performance.