



# CrateDB for Python Developers

## An Evening of Python Coding

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## What is CrateDB?

**CrateDB** is a **hyper-fast open source database** for **real-time analytics** and **hybrid search**.

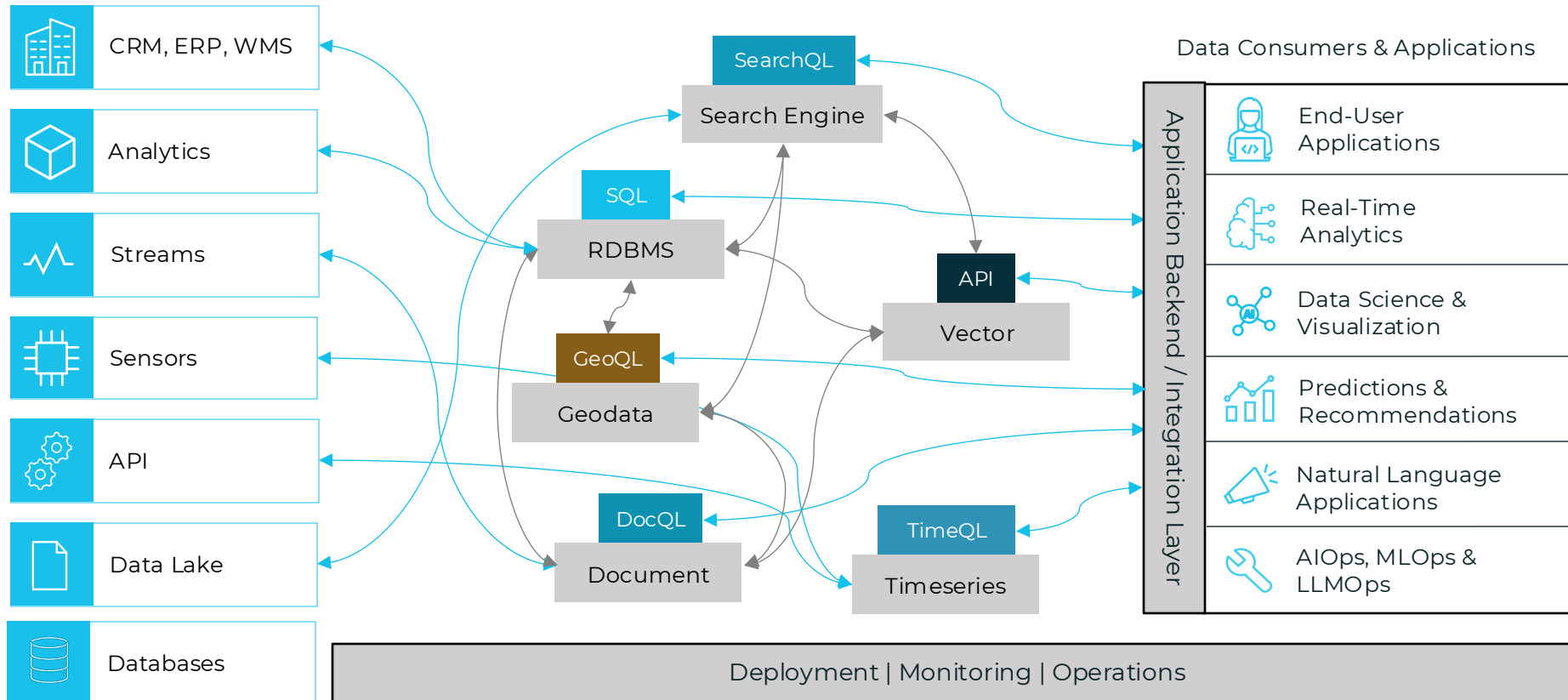


# What is CrateDB?

- Store structured, semi-structured, unstructured data
- **Dynamic, flexible schemas**
- **Advanced Indexing**
- Standard SQL query interface, Postgres wire compatible
- High volume concurrent reads and writes

# Today's Data Challenge

Taking advantage of data is complex, time consuming and costly



## Efforts

People:   

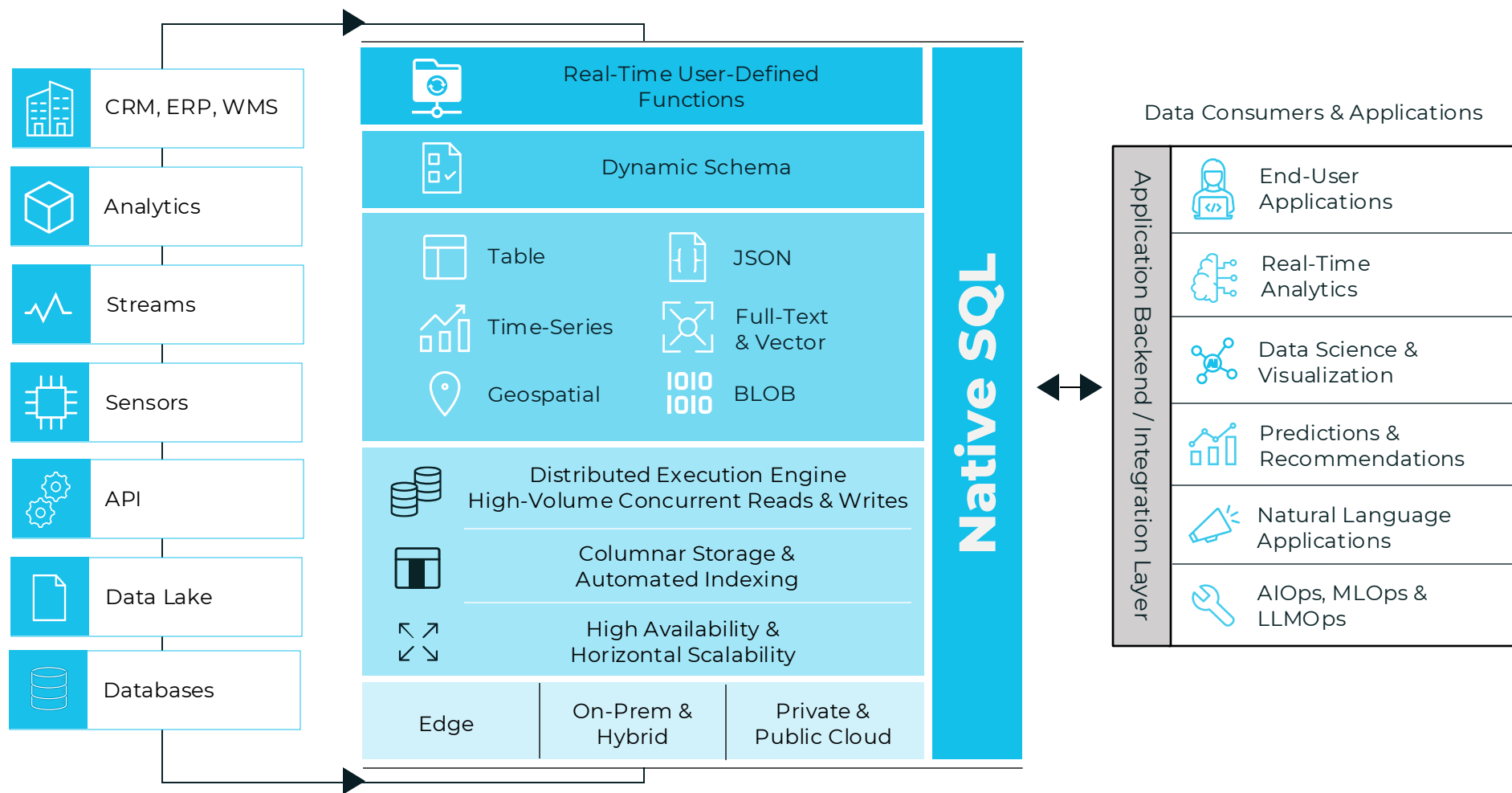
Time:   

Money:   



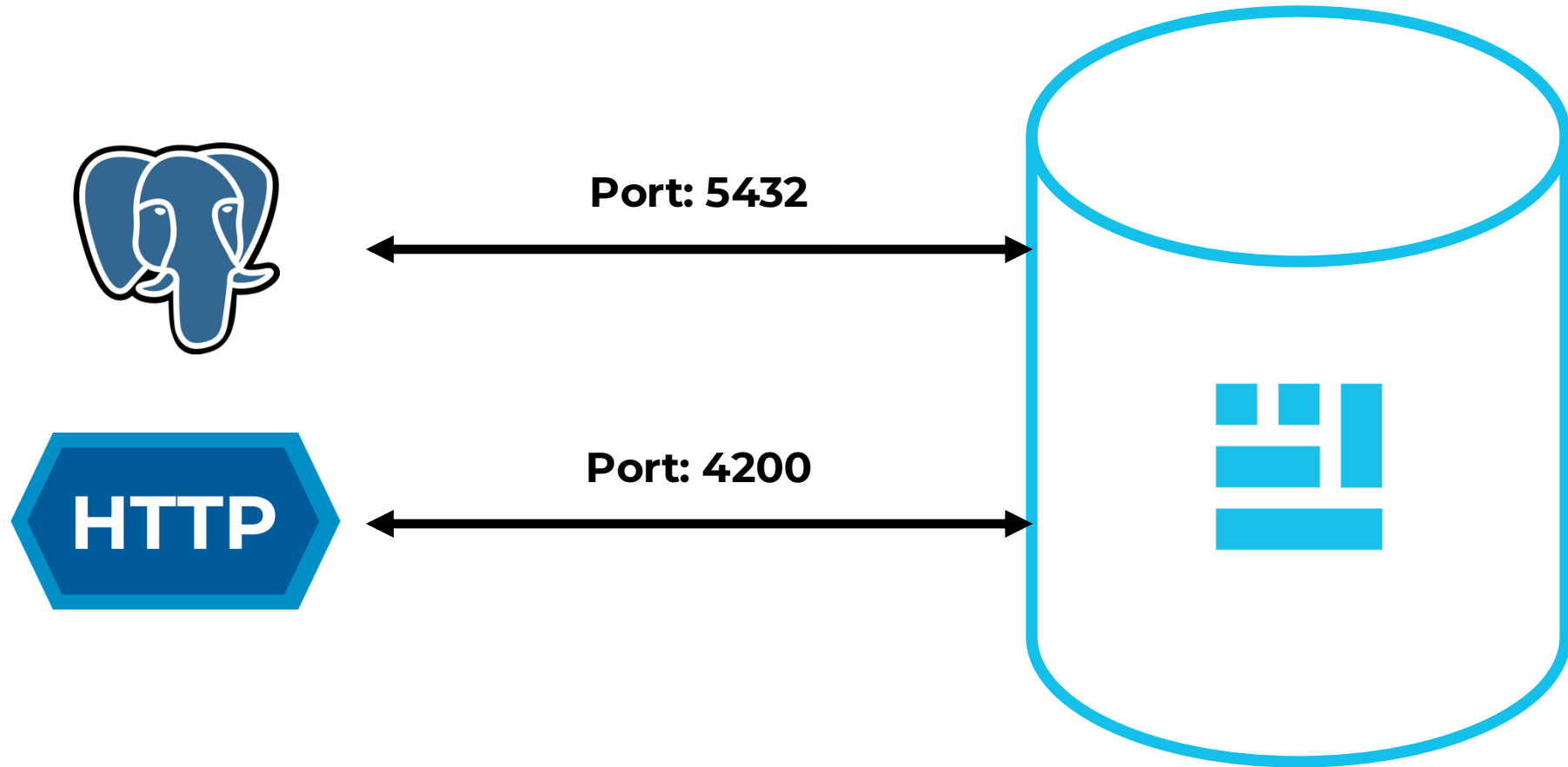
# How CrateDB solves these Challenges

Unified representation of all types of data – natively supported, accessible via SQL, indexed for you



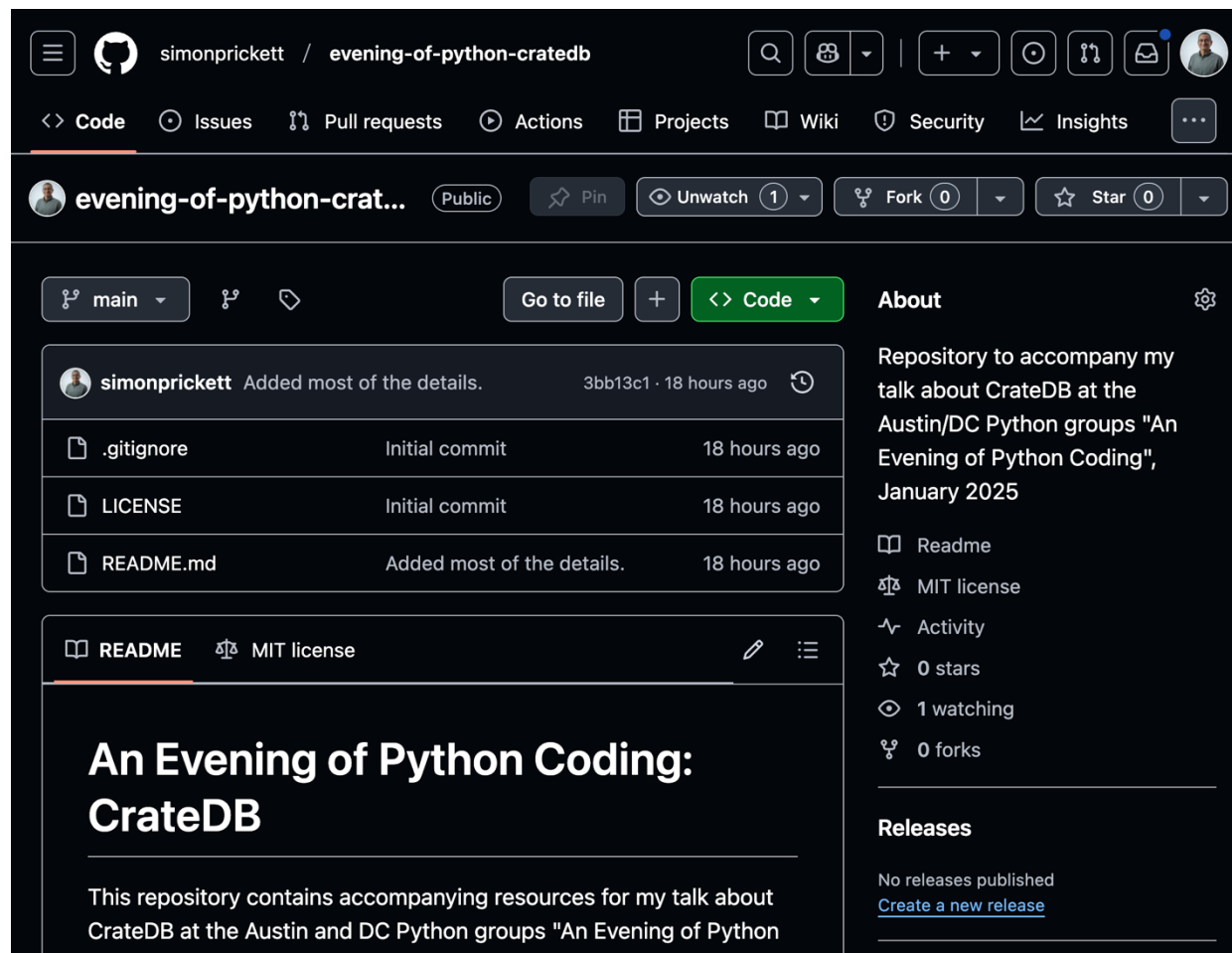


# Client Interfaces





# Examples and Resources: GitHub Repository



[github.com/simonprickett/evening-of-python-cratedb](https://github.com/simonprickett/evening-of-python-cratedb)



# Chicago City Data: Jupyter / SQLAlchemy Examples

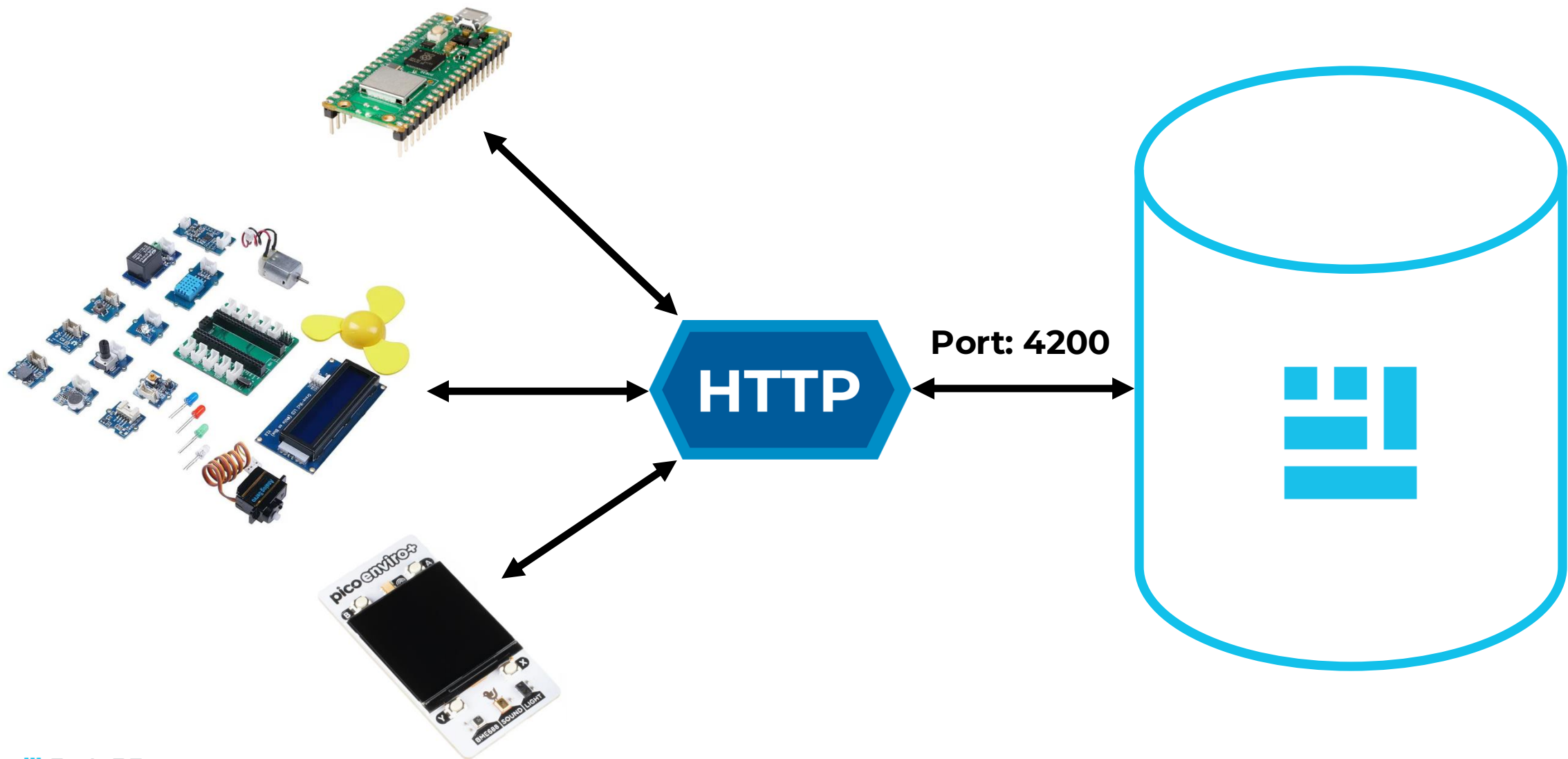


# Offshore Wind Farms Data: Python/Flask Example






# Collecting Sensor Data with MicroPython





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## Welcome to CrateDB Academy

This is a learning hub dedicated to empowering data enthusiasts with the tools and knowledge to harness the power of CrateDB.

Whether you're a beginner or an experienced professional, our comprehensive program is designed to provide you with the skills to start your first project or advance further with CrateDB.

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### CrateDB Fundamentals

**Up and Running with CrateDB**

**Lesson 1:** [What is CrateDB?](#)

**Lesson 2:** [Getting Started with CrateDB Cloud](#)

**Lesson 3:** [Getting Started with Docker](#)

**Lesson 4:** [Installing the Crash CLI](#)

