



Simple developer tools for data privacy

# Founder



Shane Curran

- Won BT Young Scientist & Technology Exhibition in 2017 for research in cryptography and data privacy.
- Youngest Forbes "30 Under 30" in 2018.
- Previous start-up success as Founder & CEO of Libramatic (2012).
- Worked with MyWallSt (formerly RubicoIn) as they grew from 3 to 25 FTEs.



# Keeping data safe is hard

Uber concealed massive hack that exposed data of 57m users and drivers

*Equifax Says Cyberattack May Have Affected 143 Million in the U.S.*

**FACEBOOK EXPOSED 87  
MILLION USERS TO CAMBRIDGE  
ANALYTICA**

**Yahoo says all three billion accounts  
hacked in 2013 data theft**

# We can end the data breach epidemic

- Breaches of customer information are happening more and more every day.
- The cost of these breaches is rising exponentially.
- Companies of all sizes are overwhelmed with the task of protecting this data.

# The missing link: data processing

- Data at rest is secured using symmetric encryption. ✓
- Data in transit is secured using SSL/TLS. ✓
- Data processing: **until now, data had to be decrypted to process it.**

# Evervault solves this

- We host a **network of hardware-secured data processing enclaves** (powered by Intel SGX).
- We allow developers to **easily deploy secure components of their application** in a cloud enclave without changing the way they build their software.
  - ◆ An individual piece of code is given a unique URL (e.g. <https://ev.run/4QaRZ>).
  - ◆ Every time an application needs to run an algorithm, it simply sends a request to the URL along with the encrypted data to be processed.
  - ◆ The result is returned to the application.
- With Evervault, **companies can easily process customer data while encrypted**. We're making the weakest link the strongest while solving the “last mile” problem of cybersecurity.

# Evervault solves this

- Developers integrate with the Evervault network through our **publicly available developer SDKs** for all major architectures/frameworks.
- This SDK verifies the integrity of a cloud enclave to make sure it hasn't been tampered with (through Intel SGX Remote Attestation) before sending it any sensitive customer information.



# Why Evervault?

- Companies no longer need to worry about securing their architecture. Their databases contain useless encrypted information which is unreadable without the key stored in the Evervault enclave.
- Easy integration with external SaaS providers like Logentries, Boxever, Intercom.
- Streamlined SOC-2, PCI and GDPR compliance for customers without rearchitecting their applications.



# Competitive Advantage

- Evervault is building the world's first cloud-based secure processing product.
- **Partnerships with Intel and Microsoft** provide strong seal of approval for larger customers and access to internal resources (engineers, security audits and co-sell).
- We're building the infrastructure that bridges secure cloud hardware and web/mobile applications — first company to do this.

# Client integration steps

1. **Create account** on Evervault where they will be issued API keys.
2. **Include Evervault SDK** in their web application source code.
3. **Isolate sensitive processing** components and deploy to Evervault.
4. **Process/display the result** once it has been returned.

```
1 const evervault = require("evervault")({  
2   api_public: "d5DjdsR32rcSD234C50bg817S",  
3   api_secret: "PQkeo0WPefKF348fvnd0QWc2j",  
4 });  
5  
6 // Define your custom processing algorithm  
7 const processor = function (dataset) {  
8   // Find the mean value of a private dataset  
9   let sum = 0;  
10  for (var item in dataset) {  
11    sum = sum + item.value;  
12  }  
13  
14  return sum / dataset.length;  
15 };  
16  
17 // Deploy your processing lambda to the  
18 // Evervault network and return the result  
19 evervault.deploy(processor, function (result) {  
20   // Result has been received  
21   // Decrypted data is never handled  
22   console.log(result)  
23 });
```

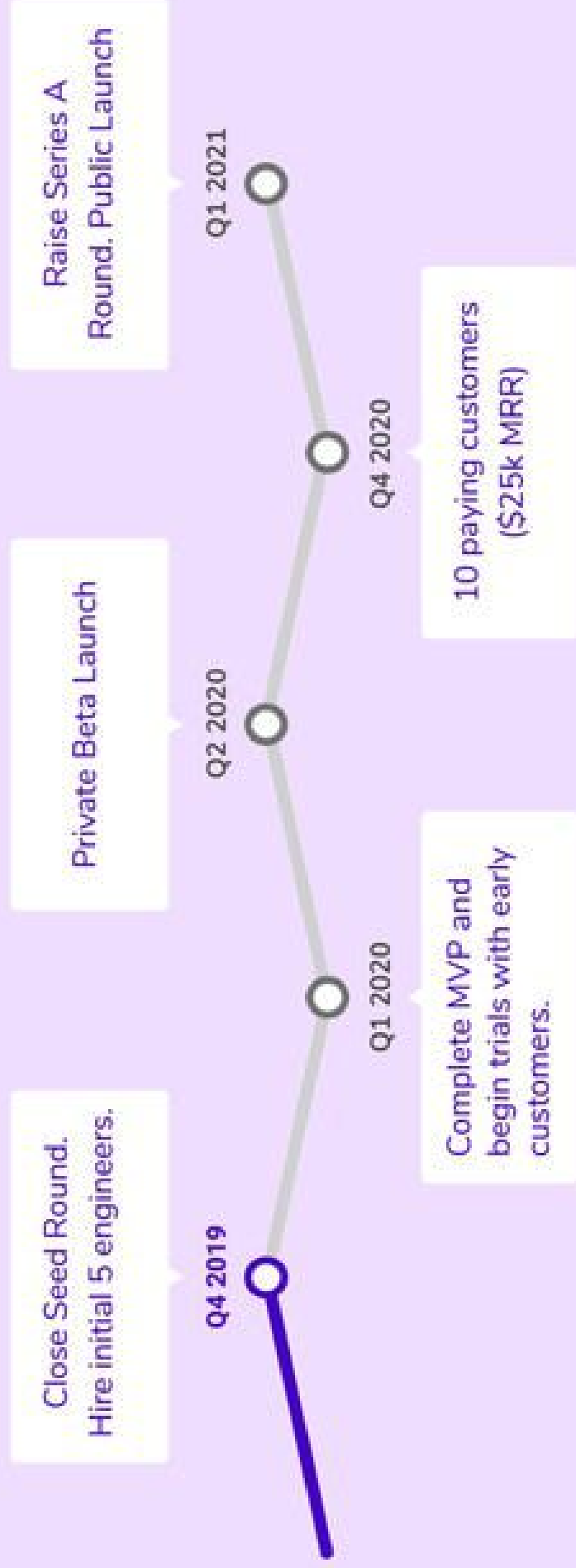
# Pricing

- Heroku-style usage based pricing
- ◆ Companies pay based on how often they use a cloud enclave and how much data they send it.
- ◆ Cost grows as usage grows and is closely aligned with their spend on cloud infrastructure → makes it **predictable for CFOs and CTOs.**

# Long term: Evervault for Enterprise

- On-premises deployments of Evervault Platform for large customers.
- Deploy Evervault on our customers' infrastructure or orchestrate private Evervault clouds.
- We provide a **robust breach insurance policy**.
- Full and audited ISO 27001, SOC-2, GDPR, HIPAA and PCI compliance.

# Timeline



# Development Roadmap

**Evervault Platform**  
Underlying enclave software,  
storage system, and API

December 2019

October 2019

**Evervault Web**  
End-user web application,  
developer documentation  
site and website launch

April 2020

February 2020

**Evervault Developer Tools**  
Client APIs and SDKs to allow  
developers to interface with the  
platform

**Evervault Prelaunch**  
Internal billing system, admin  
panel, tidy public repositories,  
security audit with Microsoft.

# What we need

**Lead investor** to invest **\$1m** in a **\$1.5m** round

- To **hire** the initial engineering team (5 developers + UI/UX Designer), build the product and **work** closely with early PoC customers to neatly integrate with their existing systems and architecture.
- This capital will provide ca. **19 months** runway, which brings us to a **public paid launch** with **10 paying clients**.

# Thank you!

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