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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.

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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.**

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Proprietary and Confidential

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.

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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.

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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.

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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.

```javascript
1  const evervault = require("evervault")({
2    api_public: "dSDjdsR32rcSD234CSDbg817S",
3    api_secret: "PQkeoOWPefKF348fvndDQWc2j"
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 });
```
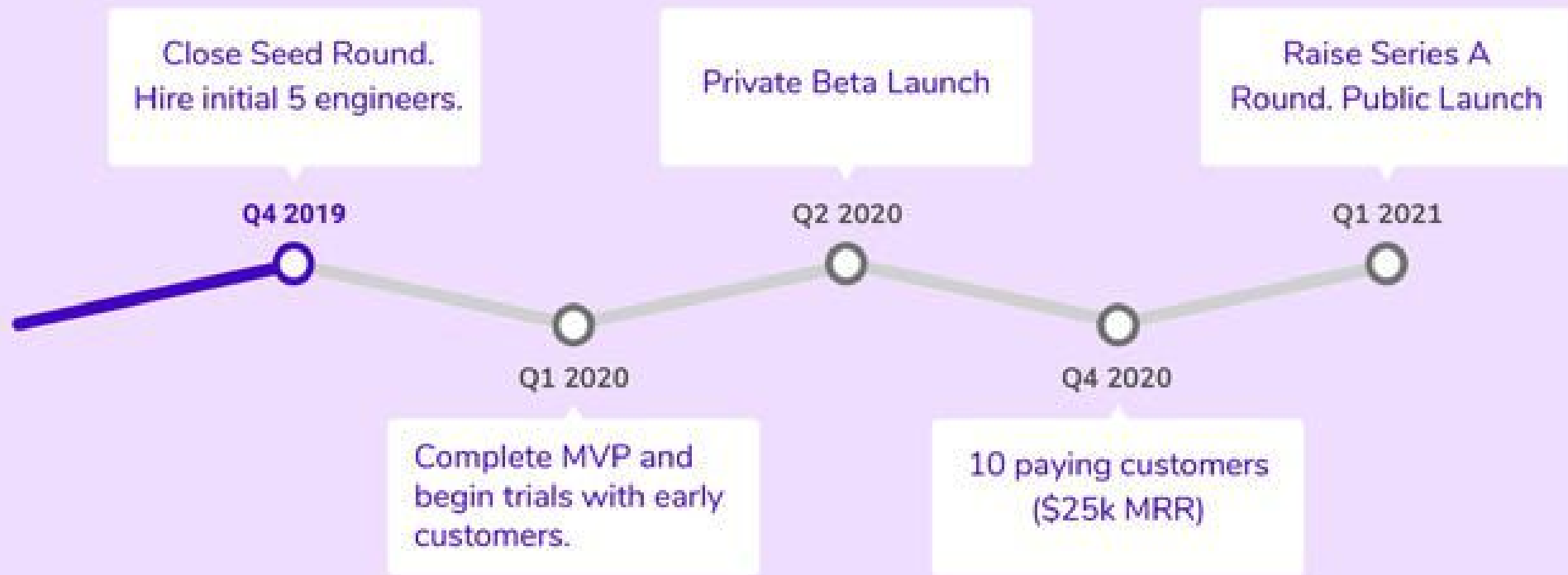
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Pricing

→ **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.**
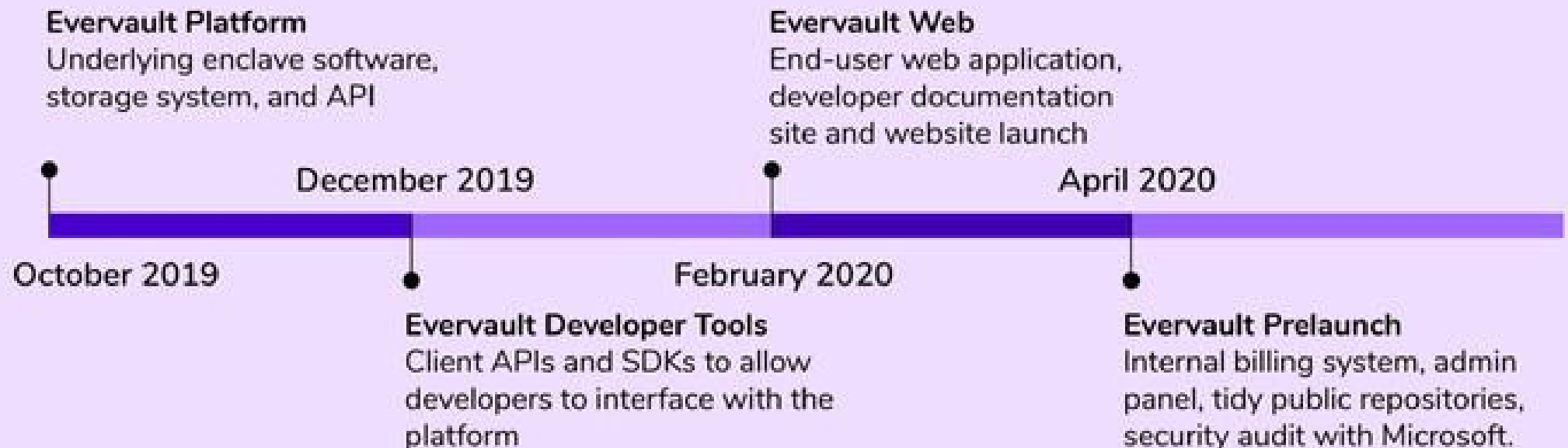
Long term: Evervault for Enterprise

→ 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

**Close Seed Round.
Hire initial 5 engineers.**

Private Beta Launch

**Raise Series A
Round. Public Launch**

Q4 2019

Q2 2020

Q1 2021

Q1 2020

Q4 2020

**Complete MVP and
begin trials with early
customers.**

**10 paying customers
($25k MRR)**

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Development Roadmap

Evervault Platform
Underlying enclave software,
storage system, and API

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

December 2019

April 2020

October 2019

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.

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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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