# Xenon Vision Statement

Project Title: GitHub Auditor

#### Team

• Team name: So Far, So Good

• Lead: Chris Yang

• Scribe: Thomas Zhang

• Other members: Nico Wong, Edward Thai, Kyle Stubbs

### **Project Summary**

#### Problem

CSOs, CTOs, and departmental managers do not possess sufficient insights into GitHub organizations, particularly when a company relies upon multiple organizations.

#### Why is the problem important?

Xenon Partners manages a portfolio of 9 companies. Each company separately manages a GitHub organization. The CSO and portfolio company CTOs do not possess a simple means to audit and proactively respond to potential security issues due to a lack of easy insights into issues such as 2FA, pending subscription renewals, third-party contributions, etc.

#### Current solutions

GitHub has a <u>built-in organization dashboard</u>, but this lacks security insights. You would have to manually check for things like 2FA or Dependabot alerts.

## Project Outcome/Goal

- Create an umbrella dashboard that presents insights into one or more GitHub organizational accounts, reporting on:
  - o 2FA requirement
  - Outside contributors
  - Dependabot alerts
  - Pull requests lacking an assigned reviewer
  - Code contains sensitive information such as API keys or passwords
- Configure alerts to notify pertinent parties about potential issues

## Solution Implementation Details (Technologies you will need):

- Web framework Laravel, Ruby on Rails
- Database MySQL

- Job queues Redis
- GitHub OAuth
- GitHub API
- Transactional emails Mailgun
- Text processing/code auditing Python

#### Milestones and How to Achieve Them:

- Identify problem
  - o Discuss with Xenon mentors, potentially Xenon clients/portfolio companies?
- Determine technologies needed, decide which we can practically implement
  - o Mentor recommendations, personal experience/research
- Construct a plan to implement these technologies
  - Mock model
- Present a functioning prototype and demonstration at CS Summit

Github Repo Link: <a href="https://github.com/chrisyang365/github-auditor">https://github.com/chrisyang365/github-auditor</a>

Trello Link: <a href="https://trello.com/githubauditor">https://trello.com/githubauditor</a>

**Google Drive Link:** 

https://drive.google.com/drive/folders/1pnO-T6cQ4scamQ\_y1UJoN7E9-AErP4eQ?usp=sharing