

Goalkeeper.com/ TLA Studios Mines CS Field Session Submission

Advanced Data Modeling Web App

About the Companies:

Goalkeeper.com:

modern marketplace and full editorial agency which delivers the news, product, and most advanced data models for goalkeepers around the world. Our clients for this project are the largest football (soccer) clubs around the world. We have goalkeeping covered top to bottom.

Read our Book: [Children's Book](#) - Previously this year we wrote a children's book to introduce ourselves to the world. It can be found in the above link.

TLA Studios:

We were tired of wasting time on other people that had no idea what they were doing so we went and became the “who that know the how” TLA is a Shared services provider and global infrastructure provider for many businesses within the sports industry around the world. It is a technology services and content agency that has been created and designed to ride a wave of consolidation within the sports industry. The goal of TLA studios is to use sports and the premium margins within sports equipment to drive innovation in materials science and design. Our client list is growing because we don't focus on being shiny and good... we just focus on not being bad.

Post Field Session Opportunities :

1. TLA Studios will be looking to hire developer(s) following this field session to continue work on our portfolio of partner projects and see this data project to fruition.
2. Our Fractional CTO is the principal architect at Crux Data. It is expected that they will be in the market for junior developers within the next calendar year. Opportunities for mentorship and collaboration with the CTO will be held on a weekly basis for this project.

Work to Be Done: 5-6 Students

We will be building a data warehouse driven web app for the advanced modeling and utilization of goalkeeping data. *But Parallel Structures are a beautiful thing...* So any alternate purposes of the app will be considered during its design and development.

The first sprints will be scripted for the team, however our last sprint will include full collaboration from the team.

Remote with occasional on campus meetings. Our team is global, but staff will be in place to visit and meet with the team multiple times in Golden.

Breakdown of Team, Frameworks & Languages

Front End: We will be telling the story of goalkeeping data from multiple aspects.
Design files will be created in figma for development.

API: We will be setting up ETL jobs from various sources to create and train our proprietary models.
Additionally the models will need to communicate with the front end for utilization.

Back End: Warehouse deployment and signal generation.

Our web app stack currently:

Back End:

Jupyter Notebooks
Google Bigquery
Crux Data - ETL
Fivetran (if needed)

Front End:

Digital Ocean
Nuxt
Vue
Strapi CMS
Ecommerce APIs- you'll see

Data Sources:

Primary:

Statsbomb 360
Opta
YScout

Secondary:

Various APIs & primary dat

Team:

Data Scientist: [John Harrison](#) - Cambridge PhD

CTO: [Chris Mitchell](#)

Operations: [Brendan Roslund](#)

Narrative Director: [Sam Hudspith](#) - Oxford

Expanded Development Team: Our development team is nearshore based and are primary contributors to a modeling software which was acquired last year for 9 figures.

Ownership of Work:

All work done during this project will be the property of TLA Studios & Goalkeeper.com Ltd. However, we are more concerned with the proprietary models than the app architecture. No security measures outside of standard branch control and repository management will be put in place.