

Industrial Placements – TUTOR VISIT REPORT (2025)

1. Student Name *

Jakub Cabala

2. Date of Visit *

7/29/2025



3. Project(s) Brief description and assessment of the quality of work given to the student.

The company develops bespoke software for large corporations. There is an internal platform supporting AI. The goal is to design multiple domain specific languages. There is a deterministic + AI refinement. Of course, customers should put some data into this application. Data can be anything and data team works on these data pipelines, which have been manual thusfar. Jakub is creating validations for these pipelines. So far it was Python but it's not typesafe so Jakub needs to develop typechecking software in Python.

Being able to catch errors that they have not caught before is the goal. These can be quantitatively assessed by counting errors. They expect a higher number with the validation scheme in place. Success criteria is enabling error-free automation in all stages of this pipeline. That's the ideal goal.

4. The student's impressions about the placement:

It's nice. First time in a startup. More chaotic then bigger companies. Objectives change rapidly. First time a project on his own. Not doing tasks in existing projects. He sets directions. A rabbit hole that he gets to navigate. But that's good. Gives responsibility. Learning self-managements, exposure to AI. Even if you don't work in AI, you read thru the code base.

5. Are there any issues which may impact negatively or positively on the student's welfare during the placement (including health & safety issues)?

Student recommends and likes it. He is healthy and safe. Welfare is good. Much better than exam period. :)

6. Name of the Manager/Mentor:

Fred Brown

7. Is the supervision suitable?

Yes

8. Would you recommend this company for future placements?

☒ Yes

☐ No

9. Please comment on the student's progress:

Typechecking libraries are determined and the initial tests with the libraries are done. Now student works on translating this to the existing DSL. Mock-data generation was tried but they switched gears to validations.

Fred says Jakub is doing well. Initially there were a lack of testing. They needed some quick fixes. The problem given to Jakub was vague. Goal was really to get robustness around these pipelines. He took that spec and ran with it to find something useful and something produced. Wasn't a classic internship. Fred is happy how Jakub handled this process. He built pipelines that are now being used. Collaboration is good. Closing down an ambiguity is good. Initially, there was an exploration stage due to vagueness. But now he picked up the pace. He develops the validation scheme and thinks about integration.

10. Please list any action points for follow up:

- Finishing testing utility functions
- Translation to DSL

Immediate action item is to have a mechanism to inject types to DSL. 2 more months to go.



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