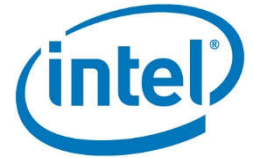


Internship subject
Insightful report for root cause analysis



Intel is developing game changing EDA (Electronic Design Automation) tools to help to design future microprocessors (like 11th Generation processors & beyond) and the power consumption and temperature. This makes it possible to predict the battery life of laptops 3 years before they are built or to estimate the cost of cooling an Intel-powered data center.

Our tools are deployed in a cloud and run many simulations which generate a great amount of data. The chip designers, to be on track with the power budget, spend a lot of time to analyse generated data, this is a primordial phase used to validate (or not) architectural choices.

This internship's mission is to develop new insightful reports that would help chip designers to make their analyses. Our models can be considered as a formula network, so for example, it would be fine to develop a report to make root cause analyses. A root cause analyzer will help, for example, to understand the cause of a too high power value.

These reports will embrace web technology to display their results in charts or tables, they will be integrated in our internally developed web application. These reports will rely on existing API to retrieve required data, if needed it's not excluded to develop new API.

We usually code in Golang our backends and in modern HTML5/javascript our frontends. Our projects are stored in git repositories. Any proficiency in these technologies is much appreciated, but so does the willingness to learn them.

The candidate must be a student in a French university or school. He or she must be able to communicate in English.

Appreciated skills

- Web application development (modern javascript, golang, html5, HTTP, REST API)
- Proficiency in both written and spoken French and English
- Proactiveness, problem solving ability, willingness to learn, being autonomous

Student qualification

Final year of French Engineering school or Master's degree, preferably with a focus on computer sciences or web development.

Other

Location: Moirans, France (Grenoble area)

Starting date: between february and april 2020.

Duration: ~ 6 months