

Final CPT Report

for

Summer Internship

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I have successfully completed my internship at Google and did all my tasks to the best of my ability. It was a great experience for me both on technical and personal front.

Project Objective

The project aimed at providing infrastructure to enable clients to do UI regression testing on their services. It involved writing modules and pipelines that the user can include in their program and obtain the testing functionality.

Achievements

I was at Google for 14 weeks and I was successfully able to complete the following tasks -

1. Expose a pipeline for clients to do UI regression testing on dynamically fetched data in Java and Javascript.
2. Design and implement an automatic test generator from input files.
3. Worked on a image comparison algorithm to reduce flakiness in image differences.
4. Interacted with teams to increase adoption of the pipeline.

Apart from my project, I also got the opportunity to learn new platforms and technologies. I worked with Guice (Google's open source DI framework) and Webdriver (Web testing framework). I worked with a great team of talented individuals and it contributed highly in improving my skills as a software engineer and developer.

In addition to my technical skills, my time at Google also enhanced my networking, ideation and pitching skills. I was constantly involved in

brainstorming sessions and pitching my ideas. My ability to identify areas of improvement and finding simple solutions for them, has also improved.

I was also able to attend a couple of Google wide summits and got an opportunity to meet innovative thinkers and experienced engineers. It gave me a much better sense of my work and it's impact and how the field of technology is impacting everything under the sun.

Apart from all that, I made friends with other interns from universities like CMU, Stanford, Georgia Tech etc. and got a chance to learn from them. I also travelled as much as I could to explore the culture, food, people on the west coast.

Conclusion

I would like to conclude by saying that working for Google was a great experience and it was relevant to my graduation program at the university in many ways. I was able to use the knowledge I gained from my courses in the project and subsequently, the skills I acquired would be really helpful for my future courses.