

Tell me about yourself?

I am Mahesh Babu Gorantla, graduated with a bachelors in Computer Engineering from Purdue University. During my past 4 years of college, I worked as a product development intern with Ford where I delivered on a command line based large git repository configuration tool that will tremendously increase the productivity of Model Based Designers and other software engineers at Ford. Before working with Ford I also developed test automation scripts for Arxan's Flagship product to detect iOS Jailbroken devices and before working with Arxan I also interned with Dept. of Homeland Security Lab at Purdue where I made tools to detect suspicious communication patterns from large social media networks for law enforcement agencies. While I enjoyed all the above experiences, I am very much interested to pursue a full-time position where I will have to opportunity to gain hands-on experience working on products/services from their inception to the marketplace. Working with The Company Name will help me achieve my personal aspirations of being a lifelong product developer with a great passion for delivering great scalable products.

Tell me about yourself Cloud Infrastructure position?

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What do you know about State Street?

State street Corporation operates as a financial holding company. It conducts business primarily through State Street Bank headquartered at One Lincoln Street in Boston. The Clipper on the company logo signifies the boston begin a maritime trade center in 1792. State Street partners with institutional investors all over the world to provide comprehensive financial services. With State Street being the manager of 10% of world's assets with **\$3 trillion USD** under management and **\$34 trillion USD** under custody and administration. Its comprehensive financial services include investment research and trading, investment management and investment servicing. If someone is an asset manager, asset owner, insurance company, official institution or pension fund provider, its clients can comfortably believe the StateStreet to be a reliable partner to focus on their challenges. State Street is always committed to doing what it takes to help its customers perform better be it now or in the future.

What were the projects that you have worked on?

Ford always has a constant requirement to aggressively restructure their software repositories, but until now they have been using solutions that cannot fully meet their robust needs. To resolve this issue of being able to maintain the software libraries in a robust manner, Ford recently started to use Git as their Software Version Control System to help them manage/maintain softwares for various product lines. When maintaining large software repositories it is often required to maintain a section(s) of the large software repositories separately but also be able to use that same section as a part of main software. This sort of restructuring is often handled manually by some mere mundane copy and pasting work. But, Git Tool (Often called GitHub) offers us a solution to this long lasting problem through the use of Git Submodules. Git Submodules besides just

being a very good solution to the ever existing problem is a very difficult concept to understand and implement on projects at scale. Hence, to relieve the software teams from this painful effort of learning and implementing this concept of submodules manually for individual projects, I have been asked to develop an automation tool that will cater to user's requirements by helping them configure/restructure larger software projects at ease using a custom project configuration file. This tool should perform all the necessary operations on the user's machine to configure/restructure any large project according to his/her needs.

I have worked for 3 months on creating this automated project configuration tool in Python and Bash Scripting Languages. I achieved significant success on making the tool work for various generic project configuration requirements at Ford. Currently, the tool can split a large software project into maintainable subsections (submodules) as per the user's needs, fetch and deploy new software updates as needed to the existing product lines and also easily create new software projects with the existing software libraries at Ford. The above mentioned accomplishments certainly encompasses majority of current needs to robustly maintain the software repositories.

Why are you best candidate for this position?

I am a highly self-motivated person who is always willing to give his best to accomplish the best. On all the projects I have worked till today be it a personal/class or an internship assignment I have always worked with great dedication and delivered on all them on time. While I worked at Ford, during the last summer I delivered on all of my internship objectives within 1.5 month although the deadline is for 3 months. I worked on this project with little to no experience with Git and Git Submodules. From this, I can say that I am a quick learner who will strive to hard to get the work done irrespective of any obstacles. Besides, all the above qualities I am not afraid of experimenting on new things whenever required. (Talk about the reference in here)

Why do you want to work for StateStreet ? State Street is a place where always entrepreneurial spirit keeps blossoming. I have read that State Street is where one is always driven to success and constantly pushed beyond their capabilities to conquer greater frontiers in their careers and at the same time there is a very diverse and supportive ecosystem at State Street where you are always supported and everyone wants to see you succeed. State Street being currently controlling/administering world's 10% assets I have a great opportunity to contribute to and learn about a multitude of sectors such investment management, investment servicing, algorithmic trading etc. And, also me being able to work along side brilliants like you will be a great honor and given the way State Street is transforming by aggressively investing in In-House IT and custom hardware Development, I can't think of a better place and time to start my career as a software engineer other than the State Street.

Tell us what motivates you? Trying to solve hard technical problems which other people cannot is what motivates me. Coming up with neat discrete ideas and seeing them come to life is what excites me the most and keeps me up at night. Working with great people to form stronger teams to crush the competition and smell more growth every day keeps me more motivated.

What are you passionate about? I am really passionate about software engineering. Why, because, software is most malleable and ductile medium that has ever existed for the human kind. We can build forts overnight with just binary codes. However, other engineering disciplines such as an aerospace or architecture cannot achieve what can be achieved with software in a shortest amount of time possible. For me software is a way of expressing my thought process to solve problems and this craft keeps teaching me how to think and solve problems in a most efficient manner with limited amount of resources. With software I can fail faster and these failures will keep me motivated to solve problems in a more efficient manner by correcting my failures.

C-A-R: Context, Action, Results**Explain a time your overcame diverse perspectives to bring a group together?**

Recently, during last semester I have been the team-lead to develop an android application that will track your physical fitness data, offer healthy recipe suggestions based on your dietary restrictions and other similar features. Here, the challenge I have is none of the team members have any experience in android development along with that I had promised my professor to deliver on an application that has integrated all of features developed by teammates

Hence, from day one I have given them ambitious but still tangible goals for every week and I have been very stringent on the deadlines. Although, initially most of the team members did not like me leading the team. However, I have clearly re-emphasizing during every weekly team meeting, how sticking to hard deadlines will help us reach the required goals before time as well as how doing so will allow us to fail fast and fix the issues on the fly. To keep them motivated I have been communicating and helping them resolve bugs on Slack mostly within a day. This way I made it possible with a team that has little to no-experience to deliver on an application that is 75% complete by the mid of the semester. Eventually, team has completed all of their individual work and I integrated all of their individual features into a single application 2 weeks ahead of schedule. This extra 2 weeks buffer time has helped us to document the software for the next semester to take over easily.

In the end, professor and project review team had applauded us that we have accomplished more work than any other team for the past 2 years.

If there was a project due soon and you had the opportunity to cut corners, would you?

Before, I jump right into the question. Usually, I tend to schedule my project milestones into manageable subtasks ordered from lower to higher difficulty levels. I follow this process because, I get to address easier parts faster and will have more buffer time left to address harder parts where I will get to fail faster. Even then sometimes things do not end up as expected. Hence, in those situations or if I can understand in advance that I will be in a situation where I have to cut corners, I will notify my supervisor and concerned teams about the ongoing issue and ask them for suggestions on how to quicken the work. I will implement those suggestions quickly. This way I can ensure that I have made sure everyone concerned person is aware of the issue before it is too late.

If the concerned personnel is not responding in a timely fashion, I will try to identify issues that are non-safety critical and implement them first so that when the time comes I will not be leaving my team empty handed. If this work is something seriously related to customer's safety or team reputation then I will explain the team in detail why we are not supposed to cut corners in the current issue and how it will jeopardize the quality standards of State Street.

In a short sentence, I will have to say no I will not cut corners even if there was a project due soon. If I have to then I will let my supervisor, team and other concerned teams know about the issue as soon as possible.

Talk about a time you've had to make a tough leadership decision that your team may not have looked favorably on?

I will explain two instances that have happened in the reverse chronological order.

When I was a sophomore I was involved in an image processing related project where we have to develop an android application to measure the distance between the target item and the host device using just image processing. The team consists of 2 graduating seniors and 2 sophomores. During the team meeting we have learnt that we have to be very familiar with Signals and Systems course.

Describe how object oriented concepts are used in Java?

Talk about how do you use Python in your daily work and your projects?

Tell us about a moment where you had to resolve a conflict with a teammate?

Questions for Interviewers?

1. Ask about Project Beacon and what sort of cloud infrastructure development is currently in the pipeline to speed up the services
2. With State Street having a new plan to save \$600 million by investing in their own private cloud infrastructure? How does this entry level cloud infrastructure position fit into this big picture?
- 3.