# What was your greatest contribution from your work this year and how did this lead to the achievement of your goals?

My greatest contribution from my work this year is building the Custom Eligibility Check project. This project leads to the achievement of cost transparency initiatives by allowing clients to submit more customized eligibility requests so they can get more accurate eligibility responses.

Here are some examples of the tasks I have completed to build this project:

1. Monolith
   1. [[COLTEC-52] Spike: How do we store multiple STCs as of today, in the current state? - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-52)
   2. [[COLTEC-53] Spike: How do we store data for STCs as of today - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-53)
   3. [[COLTEC-74] [Spike] Determine technical specs of CheckAltPatientEligibility BusCall - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-74)
   4. [[COLTEC-109] Create new BusCall CheckAltPatientEligibility - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-109)
2. Microservice
   1. [[COLTEC-73] [Spike] Come up with the UML diagram for Custom eligibility check - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-73)
   2. [[COLTEC-89] Implement the Service Layer - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-89)
   3. [[COLTEC-90] Update README - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-90)
   4. [[COLTEC-91] Implement the DAO Layer - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-91)
3. React
   1. [[COLTEC-65] [Spike] Determine technical specs for Custom eligibility check react widget - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-65)
   2. [[COLTEC-97] Build CustomEligibilityCheckForm Component - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-97)
   3. [[COLTEC-105] Finish building CustomEligibilityCheckLightbox and CustomEligibilityCheckButton with tests - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-105)
   4. [[COLTEC-152] Update CallRemotes to fetches-from-athenanet in Custom eligibility check - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-152)
   5. [[COLTEC-155] Implement form load error state - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-155)
   6. [[COLTEC-176] [SPIKE] Find out what it takes to create a divider in SingleSelect forge component. - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-176)
   7. [[COLTEC-202] [SPIKE] Find out how forge async SingleSelect works - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-202)
   8. [[COLTEC-229] Invoke check-eligibility from the app and implement error state - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-229)
4. Integration
   1. [[COLTEC-107] Mount custom eligibility check app to Quickview - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-107)
   2. [[COLTEC-123] Create function makeBusCallForObject in buscall-client - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-123)
   3. [[COLTEC-166] Fetch BaseURL for microservice from athenaConf and pass it down as a prop - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-166)
   4. [[COLTEC-171] Custom eligibility check link must be visible only on quickview. - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-171)
   5. [[COLTEC-227] [SPIKE] Determine how CLIENTSIDERENDERING needs to be used - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-227)
   6. [[COLTEC-250] Update scopes to reflect naming convention - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-250)

My main goal for this year is to take more engineering responsibilities in more technology domains as an independent and steady contributor. By building the Custom Eligibility Check project, I completed tasks like investigating legacy code, creating a new microservice (eligibility-service), creating a new react repository (custom-eligibility-check), and integrating multiple software pieces. This leads to achieving my goals because the tasks are across multiple technology domains and completing them required me to learn quickly, communicate efficiently, and contribute steadily.

# How have you grown or developed over the course of the year? Provide specific example(s).

Over the course of the year, I have improved in areas like supporting team members, exploring additional technologies, presenting technical research, collaborating with other teams, and preparing for production readiness.

Since COLTEC was first formed at the beginning of this year, I have been consistently supporting my team members with effort. I have regular one on one meetings with Gautham to discuss the progress of the team and feedbacks for each other. I have helped onboarding Michael when he first joined, and I have been proactively communicating with him regarding the development and infrastructure of our projects. I also spend time working with Andrea frequently to go over product requirements and explain technical details. Throughout this year, I have learned technical knowledge and gained insightful feedbacks from my team members.

Exploring additional technologies is one of the new developments that I have started this year. Although I was not already familiar with all the potential options that could help us, I am always interested in exploring and implementing them. By doing these, I was able to learn about why the alternative solutions are more optimized than the traditional ones and how they can help us more. Here are some examples of the alternative solutions I implemented:

* [[COLTEC-123] Create function makeBusCallForObject in buscall-client - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-123)
* [[COLTEC-226] [Spike] Identify ways to make buscall-client handle exceptions better - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-226)
* [[COLTEC-318] [SPIKE] Integrate provider directory with History 2.0 endpoint - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-318)
* [[COLTEC-362] Integrate FHIR Practitioner Read with History Endpoint - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-362)

Presenting technical research is something I have done a lot more than last year. These include investigating legacy workflows, reading documents written by other developers, and explaining my own solutions. This process has prompted me to seek solutions at bigger scopes and ponder on ways to present information in a more optimized way for other people to understand. Here are some examples of the technical research I presented:

* Insurance Guardrail
  + [[Spike] Find the data required to show the new banner - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSpike%5D+Find+the+data+required+to+show+the+new+banner)
  + [[Spike] Find the exact spot in checkin, scheduling, edit appt esp pages to fit in the new banner - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSpike%5D+Find+the+exact+spot+in+checkin%2C+scheduling%2C+edit+appt+esp+pages+to+fit+in+the+new+banner)
  + [[Spike] Determine affected workflows for guardrails in checkin page - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSpike%5D+Determine+affected+workflows+for+guardrails+in+checkin+page)
* Eligibility Technical Discovery
  + [STC Storage & Usage - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/pages/viewpage.action?pageId=391299632)
  + [Spike: How do we store multiple STCs as of today, in the current state? - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/pages/viewpage.action?pageId=394505973)
* Custom Eligibility Check
  + [[Spike] Determine technical specs of CheckAltPatientEligibility BusCall - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSpike%5D+Determine+technical+specs+of+CheckAltPatientEligibility+BusCall)
  + [UML for Custom eligibility check - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/UML+for+Custom+eligibility+check)
  + [[Spike] Determine technical specs for Custom eligibility check react widget - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSpike%5D+Determine+technical+specs+for+Custom+eligibility+check+react+widget)
  + [[SPIKE] COLTEC-227 Determine how CLIENTSIDERENDERING needs to be used - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSPIKE%5D+COLTEC-227+Determine+how+CLIENTSIDERENDERING+needs+to+be+used)
* Consolidated Eligibility 2.0 Endpoints
  + [[SPIKE] Consolidation DTOs - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSPIKE%5D+Consolidation+DTOs)
  + [[SPIKE] Build Received STCs API 2.0 - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSPIKE%5D+Build+Received+STCs+API+2.0)
  + [[SPIKE] How to surface custom tracks in 2.0 endpoints - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSPIKE%5D+How+to+surface+custom+tracks+in+2.0+endpoints)
* Eligibility Service Technical Augmentation
  + [[SPIKE] MDP Exception Handling - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSPIKE%5D+MDP+Exception+Handling)
  + [[SPIKE] SCA Scan failure in eligibility-service - Collector R&D - Confluence (athenahealth.com)](https://athenaconfluence.athenahealth.com/display/COL/%5BSPIKE%5D+SCA+Scan+failure+in+eligibility-service)

Collaboration with COLPLM on the consolidated eligibility 2.0 endpoints required tremendous communications regarding the 1.0 API contracts, 2.0 API contracts, and the frontend implementations. I also took the initiative of creating a branch in Patient Eligibility Details React repository to demonstrate how the 2.0 endpoints can be integrated into the frontend. This has instilled more confidence in this collaboration and boosted our delivery for Alpha. Executing this initiative requires understanding the workflows of both projects along with technical skills in Monolith, Spring Boot, and React. This process has helped me to grow toward a more experienced full stack software engineer. Here are some examples of the tasks I completed for this collaboration:

* [[COLTEC-297] Create a new buscall to fetch all eligibility data - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-297)
* [[COLTEC-298] Create fetch-all-eligibility-info 2.0 endpoint - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-298)
* [[COLTEC-302] Create eligibility-history 2.0 endpoint - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-302)
* [[COLTEC-312] Build Received STCs API 2.0 - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-312)
* [[COLTEC-317] Launch Eligibility Details 2.0 from Custom Eligibility Widget - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-317)

Delivering both Custom Eligibility Check and Patient Eligibility Details to production has been an entirely new experience for me. We had a tight timeline and barely sufficient room for integration testing. For the last sprint before Alpha, I have conducted plenty of testing in production with Gautham and frequently synced up with Sridhar to go over technical details of the redirection process. Here are some examples of the tasks I completed for Alpha delivering:

* [[COLTEC-81] Set up Graylog Stack and Implement it in eligibility-service - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-81)
* [[COLTEC-128] Setup Graylog stack in prod account - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-128)
* [[COLTEC-347] CheckAltPatientEligibility: When eligibilitytrack id is empty, do not fetch the benefits. - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-347)
* [[COLTEC-377] Increase instance types for prod resources. - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-377)
* [[COLTEC-382] Modify DOS Endpoint to Include Custom Tracks - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-382)
* [[COLTEC-411] Increase timeout in Custom eligibility check - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-411)
* [[COLTEC-412] Make Logging changes in eligibility-service for ALPHA - Jira (athenahealth.com)](https://athenajira.athenahealth.com/browse/COLTEC-412)

# What are your career aspirations and how did this year set you up to reach them? What else do you need from your manager/athena to get there?

My career aspiration is to become a successful full stack software engineer. This year, I have gained experience in building an entirely new project and pushing a collaborated project to production. This experience both strengthened my technical skills and enhanced my collaboration skills, therefore it contributes to making me a more successful full stack software engineer.

For next steps, I wish I can improve my infrastructure skills more, since infrastructure is also a part of the full stack and I have not yet spent as much time on it as I spent time on source code developing. While source code developing focuses on “how to build software products”, I should also be closely familiar with “how to enable software products to perform better”. I believe this will help me learn more about the universal problems that software technologies try to solve and the software technologies themselves at a more fundamental level.

Moreover, I also wish to gain more opportunities in presentations and collaborations. Presenting my ideas to other developers is helpful to myself as it pushes me to elaborate on my own thoughts more than I usually do in my own head. Collaborating with more developers from other teams also helps me to get a better understanding of Athena future products and technologies at a bigger scope.

# What goals/deliverables did you fall short on or not do your best? What did you learn and what will you do differently go forward?

When I worked on exploring the potential approach of making the Custom Eligibility Check project into a reusable React component, I spent almost an entire sprint on this spike, but I was not able to deliver an ideal result. We ended up aborting this approach temporarily, although Gautham and I have tried every solution we could think of and consulted extensive help from Hannah, Gomez, and Satvik.

What I learned from this experience is the importance of knowing how to decide whether to keep or drop an exploration of alternative solution. I think the main reason that this research did not go as well as we expected is that we mistakenly assumed that this approach was already mature and applicable to our project. We later discovered that we might have been the first team in Athena trying to make a TypeScript shareable component onto a JavaScript based component.

Going forward, I will be more alert with the applicability of alternative solutions. I will discuss more with my team about the potential effort a spike demands and assess if we have enough bandwidth given our priorities with product delivery deadlines.