

# TODO PICTURE

## Team Competency and Experience

Overall, we are a very competent team. Each of us has a fair amount of experience in development and teamwork. Many of our strengths lie in Java, Django, and Kotlin, so we'd like to break out of our comfort zone and use new and interesting frameworks and techniques. We did find a few ideas of interest, such as a cross-platform app and server backend. Many of our specialties are in databasing and backends as well as infrastructure management and networking.

We have each taken 228, and a few of us have taken 288, but our experience largely comes from our internships, jobs, and personal projects. Jack has had software engineering internships using gradle. Nate has had internships in information assurance and cyber security and works at the ISEAGE research lab. Alex also works at the ISEAGE, and has been working at Drake Head Start program in IT.

## Project-1 - Most Preferred

- Name: SelecTunes
- Problem Addressed: Sometimes music at the party is terrible, so this would allow people to vote on the next song.
- Description:

- Have you ever been at a party where the music is sub par? Or you have to go up to the current DJ and hope that they'll take your song request? Now you have the ability to easily queue up songs at any party and listen to your favorite music!
- Language/Platform/Libraries: Kotlin, C#, ASP.NET Core, Android
- Complexity Explanation:
  - Have user accounts that are stored on a SQL database (Salting and hashing passwords) which in turn allows people to set banned usernames in their parties as well as get rid of malicious users.
  - Use the server as a middle-man to manage parties.
  - Pulling Spotify API from the phone to play a music stream

## Project-2

- Name: JetStream
- Problem Addressed: Netflix and other subscription services can be expensive
- Description:
  - We seek to open up streaming to a wider audience through free streaming service. To fund this however we do plan to have a paid tier
- Language/Platform/Libraries: C#, ASP.NET Core, Xamarin, Android, XHTML
- Complexity Explanation:
  - One challenge that will be presented are concurrent streaming of video over HTTP. This would require stability on the application side, as well as very strong compression as to not saturate the network of the server or the client.