

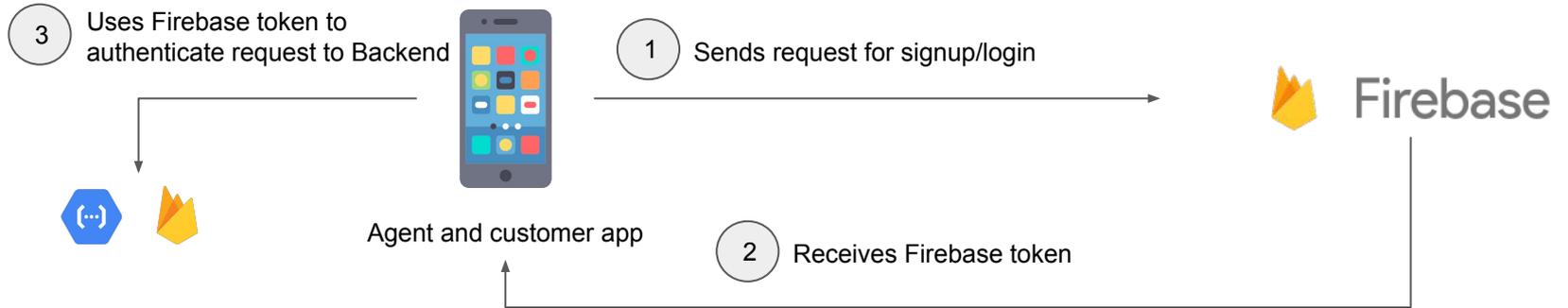


Architecture

Architecture demonstrating features, business logic,
and process flows

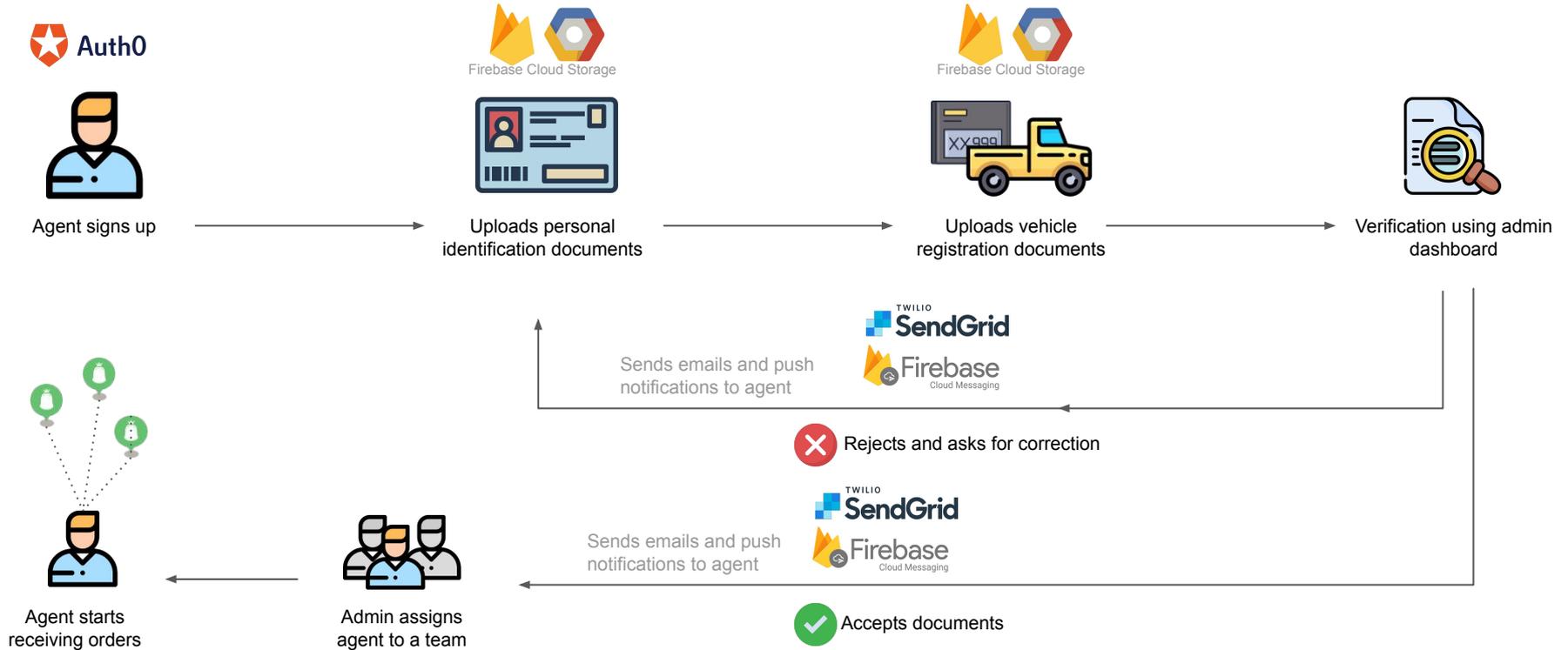
AUTHENTICATION

Secure login and signup process for customer and agents using
Firebase authentication



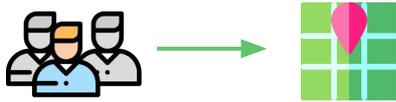
AGENT ENROLLMENT

Agent enrollment process facilitated by uploading personal identification and vehicle documentation for verification of identity



GEO FENCES

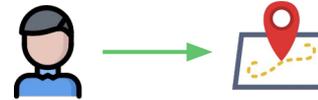
How geofences work in TrashLyft to facilitate efficient management of orders and matching customers to agents for pickup of trash



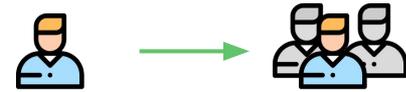
Admin creates agent team and assigns to geofences



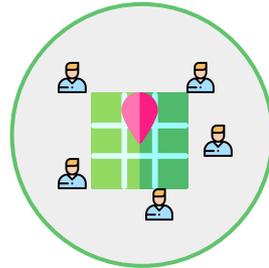
Admin creates geofences to mark areas of service



Customer enters address for pick up



On enrollment, admin assigns agent to an agent team which is associated with a geofence



The geofence is matched on placing pick up request, and the agents in that geofence are then pinged to pick up the order



Customer is automatically assigned to geofence created by admin

 Cloud Firestore

Firestore Cloud Firestore
For storing team, pick up address, and geo data

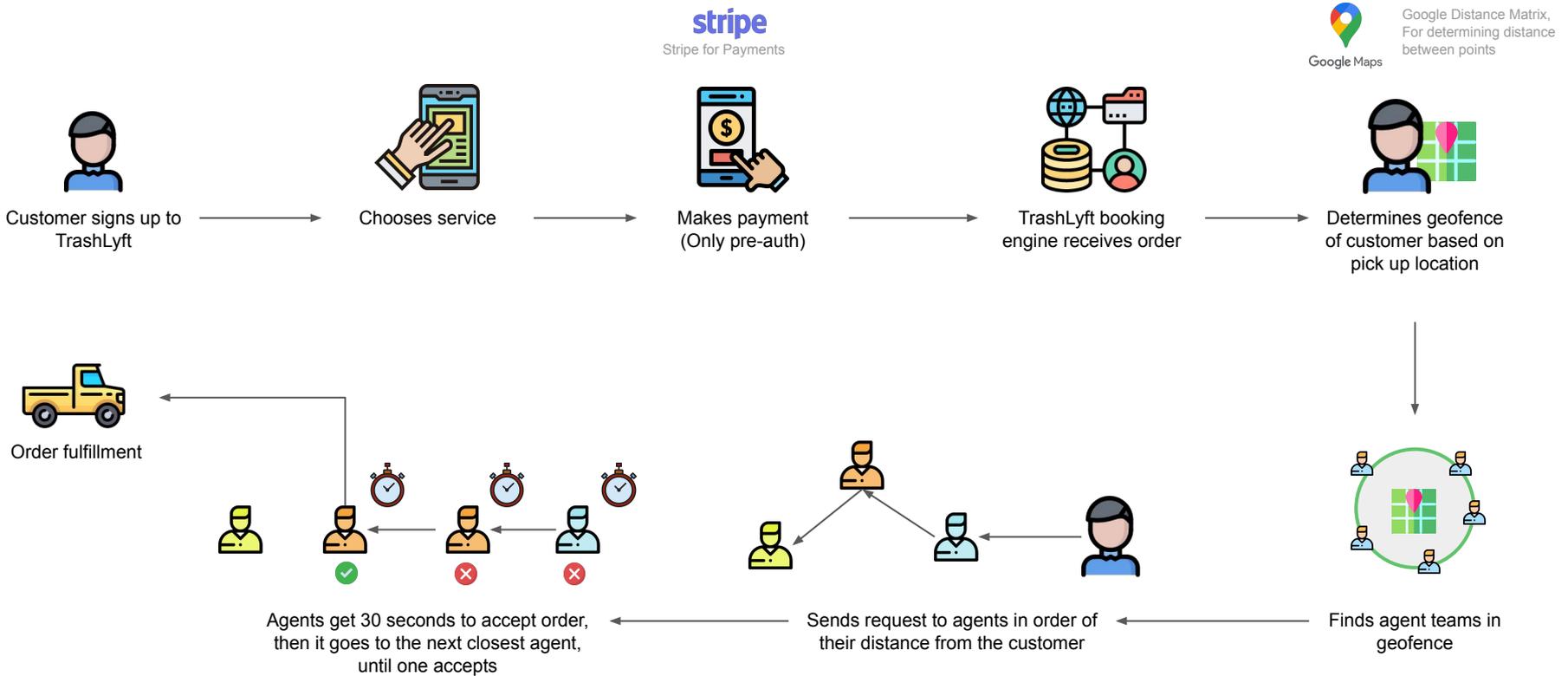


Google Maps

Google Maps for
assigning geofences and geolocation of users

SERVICE REQUEST

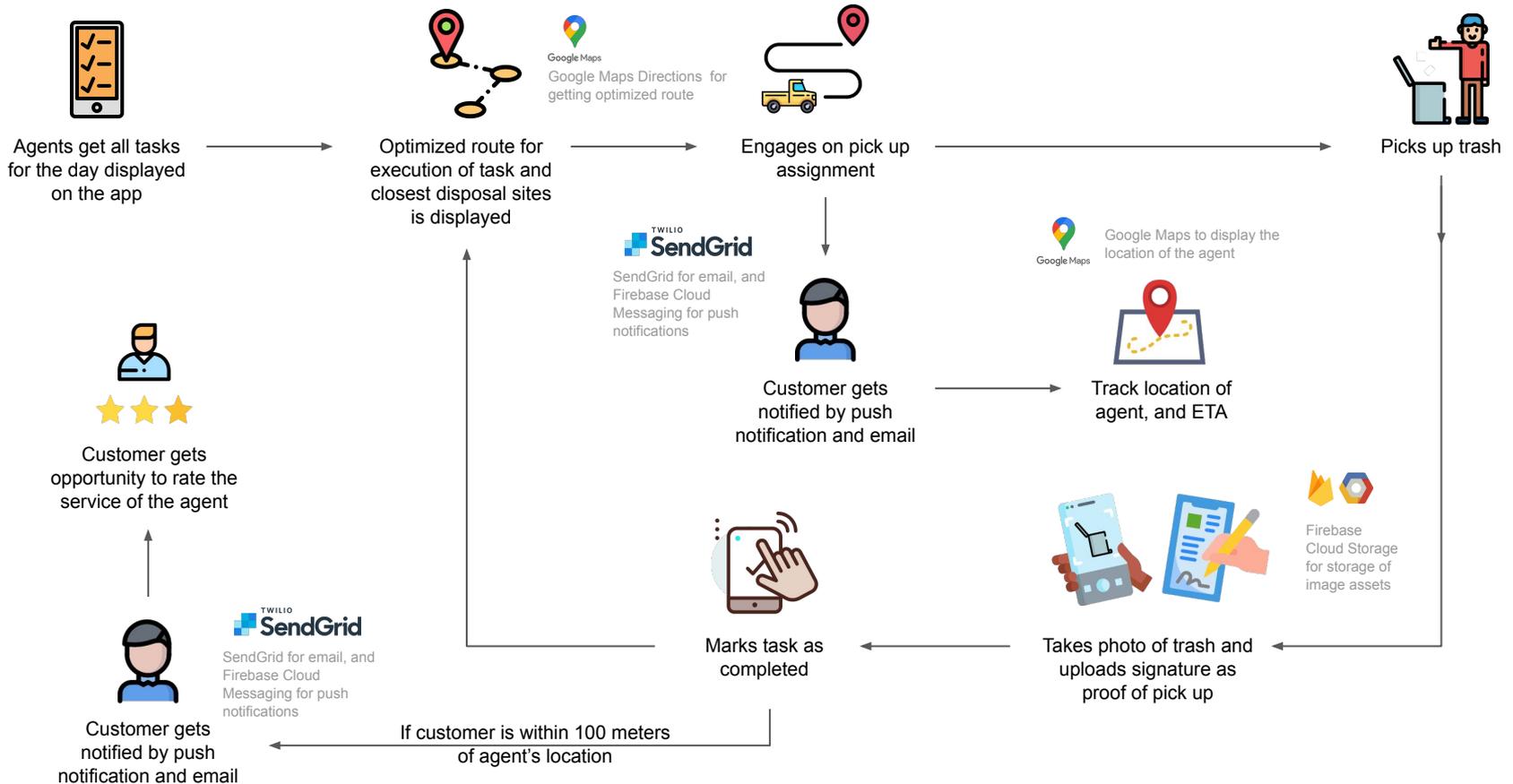
How trash pickup services are ordered and sent out to agents working with TrashLift, and the services that are used for this process



Google Distance Matrix,
For determining distance
between points

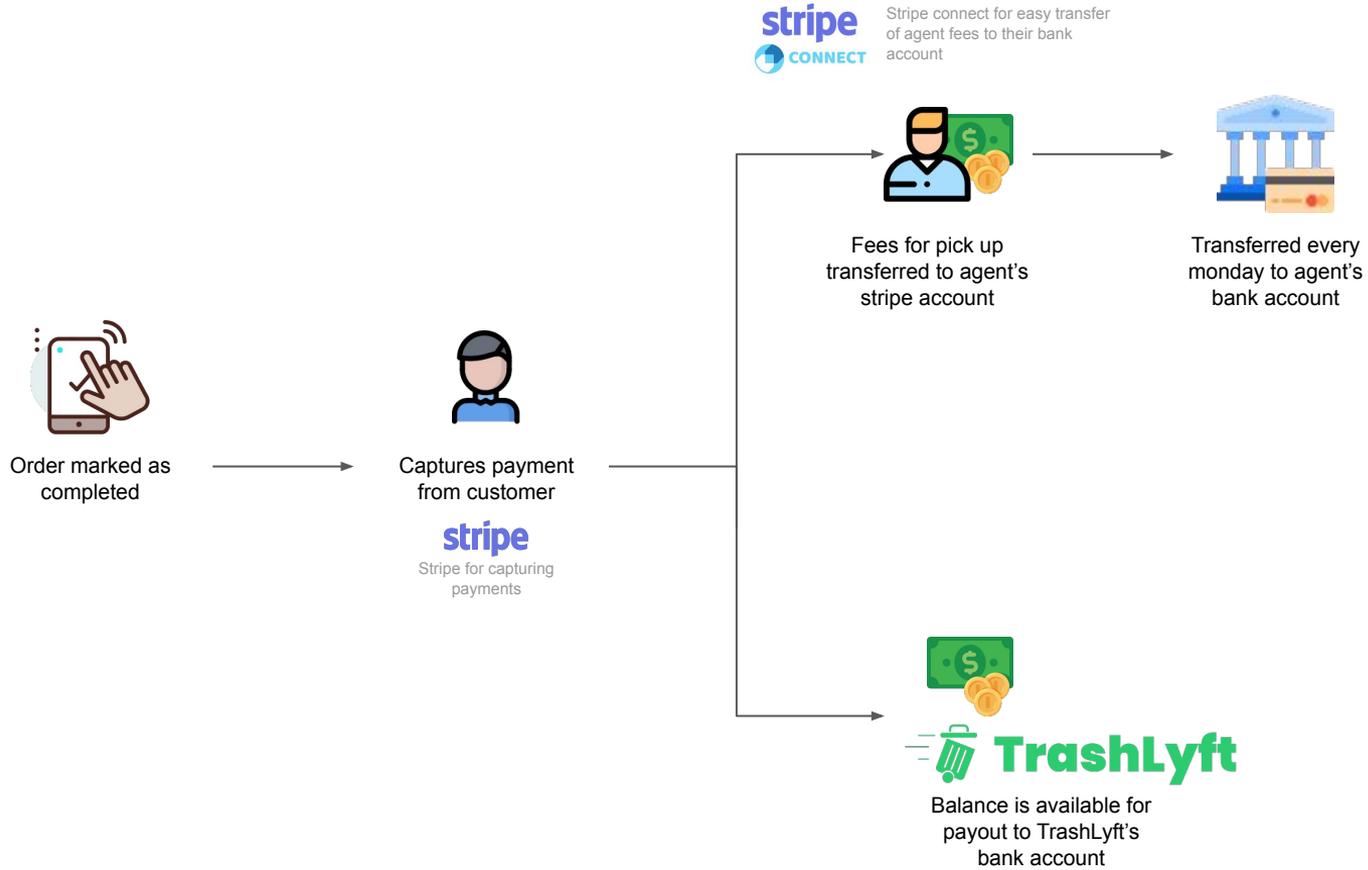
ORDER FULFILLMENT

How trash pickup orders are fulfilled by an agent and the services that are used for this process



PAYOUT

How an agent gets paid for the orders that are fulfilled by them on TrashLyft



APP MANAGEMENT

How the TrashLyft admin dashboard manages the entire TrashLyft app ecosystem



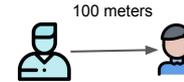
Manage, edit, labels, text, icons, and color themes remotely without re-deploying the app



Create services offered with pricing



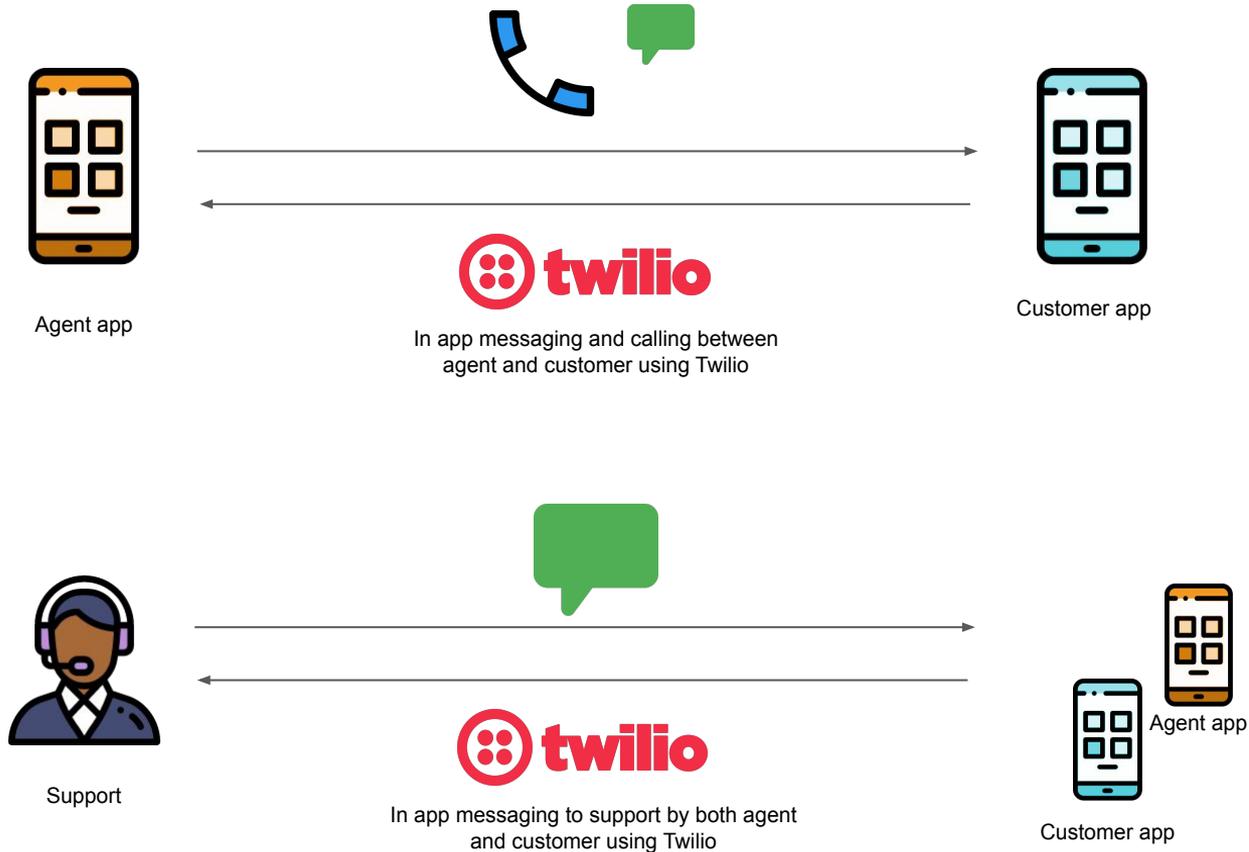
Create geofences for determining serviceable areas



Set minimum proximity with customer required for completion of order



Manage other settings like taxes, commissions, notifications, email templates, etc.



OTHER INTEGRATIONS

Other Firebase integrations that we use in the TrashLyft ecosystem



TECHNICAL STACK

- JavaScript
- Node.js
- React
- HTML5
- MongoDB
- Firebase
- React Native
- ExpressJS
- Google Cloud Platform
- Google Maps
- Stripe
- SendGrid
- Twilio
- Algolia
- Auth0

