



Sc.B. Computer Science Capstone Project

Title: Spotter Parking App

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Abstract

We founded a company to give drivers access to on-demand hourly parking by renting out private parking spaces. I originally built a proof-of-concept demo of the iOS app. We incorporated as a Delaware C Corporation for under \$200. We integrated with Braintree for mobile payment processing. We scraped the Providence Tax Assessor website to target properties with a land use code match private or commercial parking, then created a sales tool for parking lot leads (<http://albiebrown.github.io/parkmaps/>). So far, we have acquired 45 parking spaces, which are rented out on a mutually agreed upon schedule. They are all over the East Side of Providence, primarily in local business parking lots and driveways. We recently released a private beta version of the app to over 50 people from the Providence community. After submitting Spotter for App Store approval, it got approved within 48 hours, though we will wait to release it until our beta test is done.

Technologies used:

- Swift (iOS programming language)
- Google Maps SDK (for map screen)
- Google Places API (for sales tool)
- Beautiful Soup (for scraping properties)
- Braintree (payment processor)
- Parse (mobile backend)
- Heroku (for Braintree token generation)
- Plivo (for the SMS alert system in case of an issue parking)





