Matthew James **Wong**

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EDUCATION

University of Southern California | Los Angeles, CA   **Spring 2020 - Present**
M.S. Degree in Computer Science   GPA: 3.94
Georgia Institute of Technology | Atlanta, GA   **2011 - 2015**
B.S. Degree in Industrial and Systems Engineering   Graduated with Honor

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EXPERIENCE

Amazon | Remote   **May 2021 - Aug 2021**
Software Development Engineer Intern
- Migrated a service from traditional servers to AWS Lambda.
- Performed a cost and performance analysis on various AWS compute services including EC2, Fargate, and Lambda.
- Created a pipeline to support the service with continuous deployment and integration testing.
- Created an AWS CDK to manage all of the service's AWS resources. Completely removed manual management of resources.
- Consolidated similar endpoints into a singular endpoint reducing lines of code by ~75%.
- Used Java, Mockito, Dagger, Smithy, and other internal frameworks to improve the service with modern tooling and adopt best practices.
- Reduced monthly costs by ~45% with architectural changes to data ingestion.

Timbre Interfaces, Inc. | Remote   **Oct 2020 - Dec 2020**
Front-end Developer
- Used React Native to develop the [Timbre Chats](#) app's home screen, which allows users to record and send messages to their contacts.
- Developed the app's custom 'Timbre' button which includes multi-gesture features in order to provide users with a satisfying recording experience.
- Developed the app's custom record view component which visually indicates to the user the length of their recording through animated vertical bars.

Parfé | Remote   **Oct 2020 - Dec 2020**
Software Engineer Intern
- With Swift and Adobe XD, I redesigned [Parfé](#)'s eatery modal to provide users with more information regarding the selected restaurant!
- Designed and developed improvements to the app's map view UI with more informative tooltips and map icons.
- Implemented the app's notifications feature, which informs users of trending "Foodprints" and "Eateries" with Swift & Ruby on Rails.
- Redesigned Parfé's user search view such that it now includes each user's profile image, name, and username.
- Implemented alphabetical search to allow users to easily look up different cuisine types they wish to tag to their "Foodprints".

Qualtrics | Provo, UT   **Oct 2019 - Aug 2020**
Software Test Engineer II
- Converted my developer team's manual release process to Continuous Deployment via Jenkins 2. This improved our release cycle cadence from 1 week to 1 day.
- Organized the migration of our company's end-to-end test framework's public API usage to the latest version.
- Hosted training seminars on how to convert a manual Continuous Delivery pipeline in Jenkins to Continuous Deployment.

Qualtrics | Provo, UT   **May 2017 - Sept 2019**
Software Test Engineer I
- Constructed test plans for new features, which cover the use of unit, integration, and end-to-end testing.
- Contributed to selenium-based end-to-end test frameworks written in Python.
- Designed and developed release pipelines for various services with Jenkins 2 and Rundeck.

PROJECTS

Coffee Chats App for Verits.org   **Fall 2020 - Spring 2021**
- Designed and developed a CRUD application to manage the pairings of users using Node.js and Express Framework.

Flag Bridge   **Fall 2020**
- Used Ionic & React to develop a mobile [app](#) designed to improve the player experience of FFG's Star Wars Armada tabletop game.
- The app features an in-game turn counter and a dice simulator providing players with various statistics of their ships' armament.
- The app also utilizes Capacitor's storage API to allow users to save "fleets" and load them up into the app's battle report interface, which is designed to make the game easier to play by automating multiple complex mechanics of the game.

SKILLS

Python, Java, JavaScript, TypeScript, HTML, CSS, React, React Native, Ionic, Bootstrap,Node.js, Express, MongoDB, AWS Lambda, AWS DynamoDB, AWS CDK, AWS S3, AWS API Gateway