MICHAEL CHANG
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Current Address:	**Permanent Address:**
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EDUCATION

Washington University in St. Louis   St. Louis, MO
Bachelor of Science, Computer Science   May 2019
- Dean's List (Fall 2015 - Spring 2016, Fall 2017)
- GPA: 3.58/4.00

PROJECTS

Mobile Budgeting App with Receipt OCR (Personal Project)   August 2018–Present
- Launching mobile budgeting app for Android and iOS that tracks expenses.
- Incorporated the Google Cloud Vision API to handle text recognition in receipts to simplify the process of keeping track of expenses.

K-Means Clustering Model for State Redistricting   April 2018–May 2018
- Developed a clustering model based on the k-means algorithm to create new Missouri congressional districts using public US Census data.
- Implemented the model in Python Spark and executed the program in Amazon EMR.

EXPERIENCE

Washington University in St. Louis   St. Louis, MO
Teaching Assistant for Introduction to Data Science   July 2018–Present
- Built in-class and homework assignments for a new Introduction to Data Science course.
- In the assignments, students are guided through the implementation of logistic regression and decision tree models from scratch in Python.
- Standardized the anatomy of diagrams within all homework modules to help students understand the underlying mechanisms behind predictive models.

Washington University Chemistry Tournament   St. Louis, MO
Website and App Committee Co-Webmaster   October 2017–Present
- Created a mobile and desktop application that simulates a chemistry lab setting so that students can perform experiments in a controlled environment for the competition.
- Designed and implemented a web grading application to recognize exams by QR code
- Provided an intuitive web interface for entering scores into a large spreadsheet using the Google Spreadsheets API.

Washington University in St. Louis   St. Louis, MO
Teaching Assistant for Object-Oriented Software Development Laboratory   January 2018–June 2018
- Assist students with assignments (labs), studios, and general questions about the C++ language.
- Grade students' assignments and provide advice on how to correct errors in their code.

CFE Media   Chicago, IL
QA Developer   June 2017–August 2017
- Developed automated tests with Selenium (Java) to test the functionality of the three flagship products (Contentstream, Contactstream, and New Products for Engineers).
- Manually tested important functionality of the company's flagship products, documented new bugs, and reported those bugs to the appropriate development team.
- Adapted to Agile environment to determine which tests need to be implemented or refactored in a given day or week.

SKILLS

Languages: Python, C++, Java, JavaScript, Swift, MySQL, HTML, CSS
Big Data Technologies: PySpark, Java MapReduce, Pig, Hive, Amazon EMR