

# Anthony Tong

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## EDUCATION

<b>Georgia Institute of Technology</b>	Expected June 2021
M.S. in Computer Science, GPA: 4.00	
<b>University of California, Berkeley</b>	Class of 2016
M.S. in Chemical Engineering, GPA: 3.83	
<b>University of California, Irvine</b>	Class of 2015
B.S. in Chemical Engineering, GPA: 3.69, <i>Cum Laude</i> Honors	

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## RELEVANT COURSES

*Data Structures and Algorithms, Software Development Process, Database Systems and Design, Machine Learning, Computer Networks, Knowledge Based AI, Numerical Methods, Programming in C++, Linear Algebra*

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## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C/C++, PostgreSQL, MatLab, Ruby, Git

**Web:** Html, JavaScript, CSS, Flask, NodeJS, MongoDB, jQuery, JSON, Bootstrap

**Data Analysis Libraries:** Scikit learn, ABAGAIL, Pandas, Numpy, Matplotlib

**IDE's:** IntelliJ, Eclipse, Visual Studios

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## PROJECTS

### Burdell's Car Dealership Web App

- *Technologies:* Python, Flask, PostgreSQL, JQuery, Bootstrap
- Worked in a team of 4 students to design and implement a RESTful web application to process and document sales, purchases, repairs, and employee performance for a car dealership
- Documented and analyzed data flow for the database using IFD and EER diagrams
- Implemented relational database and web app using the Flask framework and PostgreSQL

### Supervised Learning Survey

- *Technologies:* Python, Scikit Learn, pandas, numpy, matplotlib
- Implemented and optimized various machine learning algorithms, including decision trees, neural networks, SVMs, and K-nearest neighbors, using scikit learn to classify vehicle types in images based on features derived from their silhouettes
- Analyzed and compared the performance of each algorithm in terms of classification accuracy and runtime
- Visualized machine learning performance using cross validation and learning curves via the Matplotlib library

### Mak Web App

- *Technologies:* Ruby on Rails, Cucumber, Rspec testing, JavaScript, Bootstrap
- Developed a full stack web application in a team of 6 students using the Ruby on Rails framework to help a client connect low income minority students with 3D printing training programs
- Applied Agile software development techniques, including test-driven development, behavior-driven development, and pair programming, to facilitate rapid web development
- Implemented various functionalities, including registration/logins for users and administrators as well as task assignments

### Bear Maps

- *Technologies:* Java
- Created the backend logic for an interactive map of Berkeley
- Constructed a QuadTree of 256 x 256 pixel images for efficient retrieval during map rastering
- Implemented the A\* algorithm with an undirected graph to calculate the shortest route between two nodes chosen by the user on the map

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## PROFESSIONAL EXPERIENCE

<b>TowerJazz Semiconductors</b> , Newport Beach, CA	May 2017 – Present
Process Engineer II – Yield Enhancement	
<ul style="list-style-type: none"><li>• Analyze defect data trends and use Statistical Process Control techniques to identify yield limiting tools/processes and provide troubleshooting recommendations</li><li>• Sustain metal deposition, development, and etch processes through ownership of inspection tools/process SPC and maintenance of inspection recipes</li></ul>	