

Anthony Tong

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EDUCATION

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

RELEVANT COURSES

Data Structures and Algorithms, Software Development Process, Database Systems, Machine Learning, Computer Networks, Knowledge Based AI, Numerical Methods, Programming in C++, Operating Systems, Computer Vision

TECHNICAL SKILLS

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

Web: Html, JavaScript, CSS, Flask, Node.js, React.js, Spring, jQuery, JSON, Bootstrap

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

IDE's: IntelliJ, Eclipse, Visual Studios

PROFESSIONAL EXPERIENCE

Paypal , San Jose, CA	May 2020 – August 2020
Software Engineer Intern	
<ul style="list-style-type: none">• <i>Technologies:</i> Node.js, React, Kraken, JavaScript, Raptor, Spring, Java• Developed an internal web application using Node.js and Java Spring used by the business operations team to create new payment transactions and to query metadata for different payment instruments• Designed and implemented a responsive frontend interface using React to take in user input and display query results• Participate in biweekly software engineering sprints as part of a team of 9 software engineers to facilitate agile development	
TowerJazz Semiconductors , Newport Beach, CA	May 2017 – May 2020
Process Engineer II – Yield Enhancement	
<ul style="list-style-type: none">• Analyzed defect data trends and use Statistical Process Control techniques to identify yield limiting tools/processes and provide troubleshooting recommendations	

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 relational database using IFD and EER diagrams
- Implemented relational database and web app using the Flask framework and PostgreSQL

Supervised Learning - Analysis of Vehicle Silhouettes

- *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

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