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, *Cum Laude* Honors

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++, Operating Systems

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, PostgresSQL, 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
IDE's: IntelliJ, Eclipse, Visual Studios

PROFESSIONAL EXPERIENCE

Paypal, San Jose, CA May 2020 - Present
Software Engineer Intern

- *Technologies: 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

- Analyze 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 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

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