***Alexander Duong* Alexander.Q.Duong@gmail.com**

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github.com/CatsGoBark Bay Area

**Education**

*San Jose State University* Expected Fall 2018

*B.S. Computer Science*

**Projects**

Maze Pathfinder Aug 2017

* Python program for finding a path through an inputted text maze
* Utilizes A\* search algorithm with a custom heuristic to find solutions

Motion Detection Alert System April 2017

* System uses a Raspberry Pi and a webcam to detect motion
* Sends a picture text message and email alert to a user on motion detection

Lossless File Compression Application June 2016

* Java application that compresses any file into a lossless format or converts it back
* Utilizes a modified Huffman algorithm for compression

**Technical Skills**

* Languages: Java, Python, C
* Tools: Linux, Bash, Git
* Other: Building Desktop PCs, Team Management

**Work Experience**

California State University, Fullerton May 2013 – Jan 2014

*Geotechnical Research Intern*

* Assisted in research on the effects of soil modification at CSU Fullerton
* Created thousands of samples and conducted tests utilizing various equipment
* Recorded data in Microsoft Excel, performed analysis on results, and organized data into a presentable manner
* Presented research at the Southern California Conferences for Undergraduate Research

**Other**

Duc Vien Buddhist Community Pagoda, San Jose 2013 – Present

*Volunteer*

* Operated concession stands and helped prepare food and drink to be sold
* Assisted in coordinating events and acted as security for crowded festivals
* Solved unexpected issues and ensured events ran smoothly for guests