Yiran Irene Fan | Curriculum Vitae

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Education

[Project: Face Detection]

[Master of Science in Engineering, Computer Engineering] - [Princeton University, NJ] [2016 - 2018][Bachelor of Science] — [Trinity University, TX] — Cumulative GPA: 3.84 [2011 - 2015]- Major I: BS, Computer Science with Honors — GPA: 3.91 - Major II: BA, Business Administration — GPA: 3.85 - Minor: Management Information Systems Awards [Babbage & Lovelace Distinguished Computing Award] — [Trinity University] [2015] - Top 1 of the department. [21st Place, ACM ICPC South Central Regional (no preparation)] [2014] Related Experiences in Computer Science [2017-Present] [CS Lab TA Coordinator] - [Princeton University, NJ] - Manage the CS lab and 50 lab TAs, hold training sessions and regular meetings, and improve the current system the lab runs under. [2016-2017] [Assistant in Instruction, COS226: Data Structures and Algorithms] - [Princeton University, NJ] - Lead or assist in weekly lectures, hold office hours, grade assignments, and mentor students with difficulties. [Project: Image Segmentation with Aerial Images Taken with A Drone] [2016] - Part 1: an iPhone application in Objective C that provides a preview of the drone's camera view and captures photos when the capture button is pressed by the user. - Part 2: the application of image segmentation techniques on aerial images. Methods tried: kmeans and graph-based. [Software Engineering Intern] — [Rackspace Headquarters, TX] [2014] - Designed and implemented automation for the CRM system and the NPS reporting process that are now in use in both the headquarters and the London office. - Participated in development of an internal ticket/report system. - Introduced and implemented new features for the internal website. [2016] [Project: RGBD Image Composition] - Takes in multiple images, composes them into polygons, and outputs a "stitched" image with diffuse albedo texture.

- Used Histogram of Oriented Gradients techniques, non-maximum suppression, linear regression and logistic regression to train a model that detects human faces.

[2016]

[Undergraduate Senior Honors Thesis: "Locating Camera Position in 3-D Space from Distinct Features of Architecture on 2-D Image"] - Aimed to develop an algorithm to estimate camera position in space. - Experimented and analyzed the full implementation tailored to the Cathedral of Notre Dame. - Provided an algorithmic outline for a generalized method. [Project: "Beethoven"] [2013] - Implemented the rotation of a 3-D Beethoven bust about an arbitrary axis with mouse input. [Project: Market Pricing Application] [2013] - Implemented a paralleled application in Haskell that allows user to input datasets with buyer and seller information, then calculates the theoretically optimal pricing of certain goods. Experiences in Business [Team Leader, GLO-BUS Business Strategy Simulation Competition] — [Trinity University, TX] [2015] - Achieved 1st place among the class of 2015. - Was invited to the triannual International Best-Strategy Invitational. [Team Leader & Product Engineer, "Chromixx"] – [Trinity University, TX] [2015] - Led a team of 4 and pitched the business plan to a panel of 5 investors. - One of the investors commented that it was "the most novel and ground-breaking pitch" over his 30 years of being an investor. Other Experiences [Music and Other Art-Related Activities] [2002-Present] - 8 years in choir; lead vocalist, back-up guitarist, and songwriter in two bands; held band concerts; stage manager, dancer and choreographer for college events; award winning songwriter; Illustrator for a food blog. [English Teacher] — [Warsaw, Poland] [2016] - Taught college students and professionals (age 18-38) conversational English through discussions and debates on current social and political issues such as abortion, feminism and the world refugee crisis. [Business Student Panelist and Representative] – [School of Business, Trinity University] [2013-2015] [President, Chinese Culture Club] — [Trinity University, TX] [2013-2014] Skills and Languages

C++, Java, Scala, MATLAB, Processing, Haskell, SQL, HTML, CSS

Mandarin Chinese, English

[2015]