Yiran Irene Fan | Curriculum Vitae

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Education

[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

[Assistant in Instruction, COS226: Data Structures and Algorithms] – [Princeton University, NJ]   [2016-Present]
- Lead or assist in weekly lectures, hold office hours, grade assignments, and mentor students
with difficulties.

[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.

[RGBD Image Composition] – [Princeton University, NJ]   [2016-Present]
- Aim to output a diffuse albedo texture for the polygon computed by composing multiple input
images of a scene.

[Face Detection] – [Princeton University, NJ]   [2016]
- Used Histogram of Oriented Gradients techniques, non-maximum suppression, linear regression
and logistic regression to train a model that detects human faces.

**[Undergraduate Senior Honors Thesis: "Locating Camera Position in 3-D Space from Distinct
Features of Architecture on 2-D Image"]**   [2015]
- 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.

["Beethoven"] − [Trinity University, TX]   [2013]
- Implemented the rotation of a 3-D Beethoven bust about an arbitrary axis with mouse input.

[Market Pricing Application] — [Trinity University, TX]   [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

[Freelance Songwriter]   [2009-Present]

[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.

[Lead Vocalist, Guitarist, Songwriter] — [Concert in Shenzhen, China]   [2012-2015]
- Performed 17 original songs in a two-member band as the lead vocalist and guitarist.

[Performer & Stage Manager] — [Trinity University, TX]   [2013-2015]
- Served as a stage manager and performed as a vocalist, dancer and choreographer at various events.

[Business Student Panelist and Representative] — [School of Business, Trinity University]   [2013-2015]

[President, Chinese Culture Club] — [Trinity University, TX]   [2013-2014]

[Illustrator, "Mortar & Pestle"]   [2013-2014]

Skills and Languages

C++, Java, Scala, MATLAB, Processing, Haskell, SQL, HTML, CSS
Mandarin Chinese, English