

# Jiatong (Kara) Ruan

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## EDUCATION:

### Master of Computer Science

Expected Dec 2018

University of Virginia, Charlottesville, VA

Honor: Department of Computer Science Academic Excellence Fellowship

GPA: 3.91/4.0

### Bachelor of Science in Computer Science with Distinction

Sep 2014-May 2017

University of Minnesota-Twin Cities, Minneapolis, MN

Honor: Gold Global Excellence Scholarship

GPA: 3.76/4.0

## PROJECTS:

- **MIA** in C++
  - An image editor with OpenGL, to process image or annotate on it. Project is built up by stages and with document.
- **Ski Stunt Simulator** in C++
  - A naive Skiing game built with G3D and Box2d physics engine.
- **TSP-Art** in Python
  - A TSP-Art program using Voronoi stippling strategy and nearest neighbor algorithm.
- **Song Genre Classifier by Lyrics** in Python
  - A song genre classifier that use Naïve Bayes to figure out a genre of a song
- **Image Server** in C
  - An image server that utilize sockets and basic client-server communication.
- **Don't Eat Alone** in JavaScript
  - An android app that can used by college students to find nearby lunch/dinner partners, in which we utilized concepts in user interface design and did user research at each stage.
- **IMDB-alike Movie Database** in MySQL
  - A movie database showing movie information and rating with basic interfaces.

## TECHNICAL EXPERIENCE:

- **QuanYouPet Co.**, Shenzhen, China  
*Unity Engineer Internship* 2018.6-2018.8
  - Contributed to a mobile pet game, utilizing some basic Unity functions in C# scripts.
- **University of Virginia**, Charlottesville, VA  
*Graduate Teaching Assistant in Computer Science* 2017.8-now
  - Courses: Software Development, Advanced Software Development, Discrete Math, Artificial Intelligence
- **University of Minnesota**, Minneapolis, MN  
*Peer Assisted-Learning Facilitator in Computer Science* 2016.9-2017.5
  - Facilitated weekly study session for students learning C++ and explained key concepts during the session.
- **University of Minnesota**, Minneapolis, MN  
*Student Web Developer* 2016.5-2016.8
  - Updated a video sharing platform with JavaScript and Ruby on Rails. Added manager privileges.

## OTHER EXPERIENCE:

- **University of Minnesota**, Minneapolis, MN  
*Ambassador of MATCH Program* 2016.5-2016.8
  - Gave speech in several high schools in my home country, sharing my experience at the university with students.

## SKILLS:

- **Programming:** Python(Advanced), C++(Advanced), Java(Advanced), C#(Intermediate), JavaScript(Beginner), Ocaml(Beginner), Coq(Beginner)
- **Packages/Tools:** GitHub(Advanced), Matlab(Intermediate), Unity(Intermediate), Android Studios(Beginner), Ruby on Rails(Beginner)
- **Languages:** Mandarin Chinese(Native), Cantonese Chinese(Native), English(Professional)