Rui Nakata

Email: rnakata@colgate.edu **github:** github.com/ruinakata **portfolio:** ruinakata.weebly.com **blog:** lifeofrui.weebly.com

Education:

MakerSquare Austin, TX ***August 2014***

12 week immersive program that teaches software engineering and web development principles

Colgate University Bachelor of Arts, Hamilton, NY ***May 2014***

Major: Molecular Biology Cum Laude

Dean's award for academic excellence recipient, dance team member, sailing team member

Massachusetts Academy of Math and Science at WPI Worcester, MA ***June 2010***

National Honors Society member, enrolled at Worcester Polytechnic Institute full-time for senior year of high school, Wellesley Book Award recipient, wrote a computer game that incorporated physics principles (trajectory motion, friction coefficient)

Projects:

SORA **Role:** Full Stack Developer Site Link Github Link

A social network created for girls who have recently graduated college to make friends in new cities. A user can post an event, chat with people who are interested in attending, send a friend request to another user, and message their friends. A user can also browse for cool new locations that are trending in real time.

Technologies: JavaScript, AngularJS, Firebase, Facebook API, Foursquare API

Rui Recommender **Role:** all Site Link Github Link

Playlist recommendation application in which users can enter multiple artists of their liking and find an already existing Spotify playlist that is the best match. Recommendations made using the Jaccard similarity coefficient and cosine similarity.

Technologies: Ruby, Rails, JavaScript, jQuery, Sqlite3, Spotify API

Feedback Now! **Role:** Full Stack Developer Site Link Github Link

Web application designed to encourage students to give feedback and for teachers to gauge how well the students are understanding the lecture in real-time. Developed in 30 hours during the Austin Education Startup Weekend in a dev team of 3.

Technologies: Ruby, Rails, Sqlite3, JavaScript, jQuery, Foundation, Heroku

ATX Hotspots **Role:** Full Stack Developer Github Link

Application to find, read, and write reviews of restaurants in Austin. Developed in 2 days with two other developers.

Technologies: Ruby, Sinatra, PostgreSQL, JavaScript, jQuery, Gravatar, OpenStreetMap API, SHA1 encryption

Work Experience:

Research Intern **– Forsyth Institute, Cambridge, MA** ***Summer 2012, Summer 2013***

Worked on two projects focusing on the effect of the phosphoprotein osteopontin in reducing spread and growth of melanoma cells and oral infection. Isolated proteins from cultured cells and confirmed their identity by western blotting and gel electrophoresis. Monitored white blood cell type and count in blood serum by utilizing techniques such as ELISA, fluorescence activated cell sorting, and flow-cytometry. Analyzed FACS data on FLOWJO and quantified tumor necrosis with techniques such as cell staining and microtomy. Perfected techniques such as subcutaneous and peritoneal injections in mice and handling mammalian cell culture.

Lab Teacher Assistant - **Chemistry Department, Hamilton, NY** ***January 2013 – Spring 2014***

Provided guidance to students in their organic chemistry lab techniques and served as a resource person during the lab periods.

Office Worker **– Alumni Relations at Colgate University, Hamilton, NY** ***Fall 2010 – Spring 2014***

Updated the university database, assisted in organizing multiple reunions and alumni events throughout the year, and obtained sources for the reunion yearbooks. Communicated with alumni to increase event attendance.

Japanese Tutor - **Japanese Department, Hamilton, NY** ***Fall 2010- Spring 2012***

Organized a study plan for students majoring in Japanese to improve their vocabulary and speaking skills. Assigned homework and met with students individually to prepare them for study abroad. Led weekly group lunch sessions as a practice period for pronunciation.

Research:

An unidentified gene regulates body size in toy poodles in addition to GHR, STC2, SMAD2, IGF1R ***Spring 2014***

Genome research conducted at Colgate University. Genotyped multiple dogs, created a linear regression model using SPSS, and performed statistical analysis and data analysis to observe trends and to find an additional gene that regulates body size.