

LAREINE JENG



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ljeng.github.io



ljeng

PROFESSIONAL EXPERIENCE

University of California – San Francisco

Staff Research Associate

San Francisco, CA

January 2019 – Present

- Use RStudio and an R library called Monocle to analyze single-cell RNA sequences for the Department of Neurology.

C2 Education

Computer Science and Statistics Teacher

Livingston, NJ

October 2017 – October 2018

- Taught a college-level Java course, a general computer science course, and a statistics course.
- Traveled across centers in North and Central Jersey to teach and perform administrative tasks such as auditing business data up to 41 hours/week.
- Scored 97% and 93% on C2 pre-employment exams on statistics and computer science respectively.

Recurse Center

Programmer

New York, NY

July – September 2016

- Participated in a full-time sabbatical funded by a grant for programmers.

Technical skills: Java, C, JavaScript, Python, R, HTML/CSS, statistics, web development, machine learning

PRESENTATIONS

Self-Driving Car Simulator, September 2016

Recurse Center, New York, NY

- Showcased a model written in R based on millions of data points that appraises a subject's life based on the subject's demographic information, situational physical position, and behavior to use in life-or-death situations where a self-driving vehicle must value one set of lives over another.

Ethical Engineering, August 2016

Recurse Center, New York, NY

- Introduced the process of constructing ethical frameworks for autonomous machines.

PROJECTS

Auto Auditor

- Wrote a JavaScript program that sorts billing events in chronological order and then uses binary search to find billing errors in business data in C2 Education's Smart2 system.
- Significantly sped up the process of auditing business data and improved accuracy.

Advanced Add Reminder for Google Sheets

- Wrote a JavaScript program that works with a complex project management spreadsheet that sends an email reminder to team members two days before an assignment is due.
- Added additional functionality that updates the spreadsheet to show that an email was sent, CC's the email to the coordinator, and maintains a file of all emails sent.

EDUCATION

Cooper Union, New York, New York

Civil Engineering

- Full merit scholarship

Webb Institute, Glen Cove, New York

Naval Architecture & Marine Engineering

- Full merit scholarship
- Fischer Dunderberg Scholarship
- Dean's List
- Record holder since 2009 at the Coho Memorial, a Mid-Atlantic regional college sailing regatta

Relevant coursework: Statistics Honors, Programming with Applications, Introduction to Computer Science, Interactive Multimedia, Web Design, Introduction to Computing for Scientists and Engineers

Academic Honors: National Merit Commended Scholar, 800 on SAT Mathematics Award