LAREINE JENG

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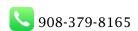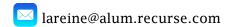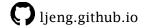
PROFESSIONAL EXPERIENCE

University of California – San Francisco   San Francisco, CA
Staff Research Associate   January 2019 – Present
- o Use RStudio and the R libraries Seurat and Monocle to analyze single-cell RNA sequences for the Department of Neurology.

C2 Education   Livingston, NJ
Computer Science and Statistics Teacher   October 2017 – October 2018
- o Taught a college-level Java course, a general computer science course, and a statistics course.
- o Traveled across centers in North and Central Jersey to teach and perform administrative tasks such as auditing business data up to 41 hours/week.
- o Scored 93% and 97% on C2 pre-employment exams on computer science and statistics respectively.

Recurse Center   New York, NY
Programmer   July – September 2016
- o Participated in a full-time sabbatical for programmers sponsored by Jane Street, Google, and Dropbox.

Technical Skills: Python, Java, data structures & algorithms, machine learning, C, JavaScript

PRESENTATIONS

Self-Driving Car Simulator, September 2016   Recurse Center, New York, NY
- o 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
- o Introduced the process of constructing ethical frameworks for autonomous machines.

PROJECTS

Auto Auditor
- o 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.
- o Significantly sped up the process of auditing business data and improved accuracy.

Advanced Add Reminder for Google Sheets
- o 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.
- o 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
- o Full merit scholarship

Webb Institute, Glen Cove, New York   Naval Architecture & Marine Engineering
- o Full merit scholarship
- o Fischer Dunderberg Scholarship
- o Dean's List
- o 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