Lareine Jeng

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in ljeng

EDUCATION

Cooper Union   New York, NY
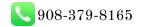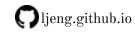Civil Engineering
- Full merit scholarship

Webb Institute   Glen Cove, NY
Naval Architecture & Marine Engineering
- Full merit scholarship
- Fischer Dunderberg Scholarship
- Dean's List
- Current record holder at the Coho Memorial, a Mid-Atlantic regional college varsity sailing regatta

Relevant Coursework: Technical Communication, Programming with Applications, Calculus I and II, Engineering Design and Problem Solving, Introduction to Computer Science, Introduction to Linear Algebra, Engineering Professional Development Seminars, Ordinary and Partial Differential Equations

PROFESSIONAL EXPERIENCE

C2 Education   Livingston, NJ
Non-Compete   2018 - Present
Computer Science and Math Teacher   2017 - 2018
- Taught AP Computer Science Principles/A, AP Statistics, AP Calculus AB/BC, and AP Physics 1/2/C.
- Scored 93% and 97% on C2's pre-employment exams on computer science and statistics respectively.
- Wrote a JavaScript program that uses binary search to speed up detecting billing errors in business data.

Recurse Center   New York, NY
Participant   2016
- Received a grant to learn about programming languages, data structures and algorithms, operating systems, discrete mathematics, and software engineering in a community-driven programmers' sabbatical.
- Presented a data mining algorithm for the construction of ethical frameworks for autonomous machines.

Derecktor Shipyards   Bridgeport, CT
Naval Architecture & Marine Engineering Intern   2010

SPONSORED OPEN-SOURCE CONTRIBUTIONS

Auto Auditor   2018
- 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.

Self-Driving Car Simulator   2016
- A model written in R based on millions of data points that appraises a subject's life to use in life-or-death situations where a self-driving vehicle must value one set of lives over another.

Ethical Engineering   2016
- A data mining algorithm for the construction of ethical frameworks for autonomous machines.
- Presented at the Recurse Center in September 2016 and featured in "Through the Ocean" blog.

Technical Skills: Java, Python, R, MATLAB, data structures, algorithms, complexity analysis