Lareine Jeng

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ljeng

EDUCATION

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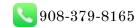
Civil Engineering
- Full merit scholarship

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

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

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.

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.

Derecktor Shipyards   Bridgeport, CT

Naval Architecture & Marine Engineering Intern   2010

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

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.