

Leo Marek

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Personal Profile

I am a student at Rice University studying computer science as well as electrical and computer engineering. I am passionate about software engineering, computational modeling, deep learning, data science, embedded systems, and the intersection between hardware and software design. On the side, I love working on design projects and IOT devices. When I am not busy at school or working on projects I am passionate about the outdoors as I am an advanced downhill skier, collegiate sailor, experienced backpacker, and mountain biker.

Education

Rice University

Houston, TX

BSECE, BACS, Engineering Design Minor

May 2026

- Rice Electric Vehicle Subteam Lead: oversee the 20-person electrical team, design, build, and debug custom electronics for our entry to the shell eco-marathon
- IEEE Representative: plan IEEE events and corporate recruiting lunches, coordinate with conferences
- Rice CS Club: HackRice, Coursework Support
- Rice Data Science: Data Science Bootcamp, Rice Datathon
- Courses:** Algorithmic Thinking, Signals and Systems, Digital Logic Design, Discrete Math, Computer Engineering, Honors Linear Algebra, Multi-variable Calculus

Athenian School

Danville, CA

High School

May 2022

- 40-person FIRST Robotics team Captain, 1200+ hours
- Investment Club, Varsity Sailing (captain), Entrepreneurship, Math Club founding member, Ultimate Frisbee
- Courses:** Data Structures, Algorithms

Experience

Rice Computer Science Department

Houston, TX

Teaching Assistant

Jul 2023 - Present

- Assist computational thinking instruction for first-year CS students
- Teach Python, Graphs, Matrix Operations, Linear Regression, Model Fitting, Error Correction, and Markov Chains

Oshman Engineering Design Kitchen

Houston, TX

Laboratory Assistant

Jul 2023 - Present

- Instruct machine and tool usage to students in and out of classes
- Use lab tools and equipment including 3d printers, laser cutters, waterjet cutter, plasma cutter, electrical instrumentation, and cnc machines

Encinal Yacht Club

Alameda, CA

Sailing Instructor

May 2021 - Present

- Instructed over 300 new sailors aged 8-68, created lesson plans, and led students in exercises on the water. Database sailor skills in Excel.

Alloy Technologies

San Francisco, CA

Intern

Mar 2020 - Apr 2020

- Produced marketing video content (3000+ impressions) and helped coordinate national conference presentations to demonstrate benefits of smart supply chain analytics

Expertise

Skills	Software Development, Data Engineering, Robotics, Machine Learning, Electronics, Object-Oriented Programming, Leadership
Technologies	Java, Python, Robotics, C, Autodesk EAGLE, R, Microcontrollers, Pytorch, Git, CAN bus, Excel, C++, Matlab, HTML, CSS, Linux
Certifications	US Sailing Small Boat Instructor, International Offshore Safety at Sea, Red Cross First Aid/CPR/AED
English	Native proficiency
Spanish	Professional proficiency

Projects

Check out all my projects on leomarek.github.io