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, 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
Sept 2022 - Present

- 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:** Computational Thinking, Discrete Math, Computer Engineering, Honors Linear Algebra, Multivariable Calculus

Athenian School
Danville, CA

High School
Aug 2018 - 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 new sailors aged 8-68, created lesson plans, and led students in exercises on the water

Alloy Technologies
San Francisco, CA

Intern
Mar 2020 - Apr 2020

- Produced marketing content and helped coordinate events to demonstrate to clients the benefits of smart supply chain analytics

Expertise

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

Projects

School and Personal Projects

Check out all my projects on leomarek.github.io

Languages

English	Native proficiency
Spanish	Professional proficiency