ALEXANDER **LI**

Bellevue, WA 98006 · 4253062285

asl11@rice.edu · github.com/asl11 · https://asl11.github.io

OBJECTIVE

To participate effectively in the team environment, utilize my skillset and experience to develop projects while learning, and to implement new technologies in a meaningful way.

EDUCATION

SEP 2018—MAY 2022

BA IN COMPUTER SCIENCE, RICE UNIVERSITY, 3.7 GPA

- -Committed to BA in Computer Science
- -Relevant Courses: Advanced Algorithms, Java Program Design, Computer Engineering, Data Science Statistics, Multivariable Calculus, Computer Systems in C, Parallel Programing, Web Design, Object-Oriented Programming

EXPERIENCE

FEB 2020 - CURRENT

RESEARCH AT RICE NEUROENGINEERING INITIATIVE, RICE UNIVERSITY, DR. LUAN'S LAB

- Individual Summer Project: with the guidance of a graduate student, I worked on Bayesian neural decoding using deep learning models and the bayesianoptimization package
- Developed keras model to predict behavioral state of mice based on neuron firing rate, optimized hyperparameters to reach 40% improvement from base model
- Use machine learning algorithms to identify motifs and decode big biological data

PROJECTS

- Developed and optimized a deep neural network that was able to predict a mouse's behavioral state based on binned neuron firing rate
- 2020 Rice Datathon Machine Learning Systems 1st
 Place Project Built a frontend/gui to interact
 with a machine learning model to predict divorce.
- Developed a genetic algorithm to breed and mutate generations of images based on mathematic functions
- Developed core C library functions from scratch in C: malloc, shell, proxy, linking

SKILLS

- Technologies Java, Python, C, Javascript, Matlab, React, HTML/ CSS, LaTeX
- Learning Energia, Arduino, R

- Fluent in Chinese, learning Japanese
- Passionate about learning new technologies and Software development