(703) 220-5928 (cell) aliu338@gatech.edu 2019aliu.github.io

Education

Georgia Institute of Technology

B.S. Computer Science, 2022

GPA: 3.8 Atlanta, GA August 2019 - Present

- Selected courses: Introduction to Artificial Intelligence, Introduction to Computer Vision, Objects and Design, Computer Organization and Programming, Combinatorics, Honors Linear Algebra with Abstract Vector Spaces, Discrete Mathematics, Statistics and Applications, Macroeconomics

Skills

Languages: Java, Python, JavaScript/ES6

Infrastructures and Frameworks: Git, Node.js/V8, React.js, SCSS, WebSocket, MongoDB, Firebase, Keras, Tensorflow

Software: Android Studio, Figma, Jupyter Notebook

Experience

Be sure to check out my GitHub! You can find here: https://www.github.com/2019aliu

Software Developer Intern

Rockville, MD - remote May 2020 - August 2020

S&C Electric

- Led the design of backend, implementation, testing, and documentation of an application to view and edit settings of all S&C products, will be used to monitor 10000s of devices
- Redesigned and implemented backend microservices and proxy to retrieve data from S&C Electric's devices, resulting in 4x speed up and 299% reduction in the schema used to retrieve data
- Collaborated with design team to redesign a user-friendly interface, and implemented the interface with newer technologies (React, Electron) to reduce code base size significantly
- Technologies used: Java, Javascript, Redis, Spring Boot, WebSocket, STOMP, GraphQL, Apollo Server + Client, React.is, Electron.is

Software Developer Intern

Greenbelt, MD

Fluency Security Corporation

June 2019 - August 2019

- Developed a web-based trouble ticketing system, FasterIncidentResponse for use at client demonstrations
- Created developer's guide documentation
- Unit tested log management software to find bugs
- Drove trucks and wired ethernet cables
- Technologies used: Golang (including Gin server), MongoDB, Bootstrap, Vue.js, Node-RED, Postman, Markdown

Research

Move2Music Parikh Lab

Atlanta, GA - remote

August 2020 - Present

June 2018 - January 2019

- Research uses of recurrent neural networks and reinforcement in generating music from video footage of dance
- Using modern encoding techniques and LSTMs for proof of concept to pair dance video with an appropriate music

Migraine Research

Neuroscience Research Lab

Great Falls, VA

- Explored two-dimensional materials for inhibition of the critical pathway in migraines
- Employed high-performance CPU cluster and slurm management to increase computation speed
- Research proposal accepted by neuroscience research lab, received guidance and \$2400 funding for project