Lake Yin

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OBJECTIVE:

Junior with a passion for the applications of computer science seeking to contribute experience with teamwork, research, and collaborative programming to an internship or co-op.

EDUCATION:

- **Rensselaer Polytechnic Institute, Troy NY (2019 - 2023)**
  Bachelor of Science in Computer Science - 3.56 GPA
  Dean's Honor List, Member of Upsilon Pi Epsilon

RELEVANT COURSEWORK:

- **Fall 2019:** Data Structures
- **Spring 2020:** Foundations of Computer Science, Computer Organization
- **Summer 2020:** Intro to Algorithms, Principles of Software, RCOS, Linear Algebra
- **Fall 2020:** Data Mining, Frontiers of Network Science
- **Fall 2021 (*tentative*):** Programming Languages, Projects in Machine Learning and AI

WORK EXPERIENCE:

- **Software Engineering Intern at Liberty Mutual:** Contributed development to multiple sprints and helped debug and test. Conducted performance and runtime evaluations for serverless based systems. Analyzed and identified areas of cloud cost reduction. Utilized Javascript, GraphQL, PostgreSQL, Apollo Server, AWS Lambda.
- **Undergraduate Research Assistant:**
  - Working with Professor Boleslaw Szymanski and the Network Science and Technology Center (NeST) of RPI on developing a project for the DARPA SocialSim challenge to model and simulate social networks under external stressors. Designed and conducted multiple simulation experiments. Developed and tested multiple new models for predicting future event volume and response structure. Created presentations for stakeholders.
  - Developed a project with Professor Jianxi Gao to research, understand, and analyze how browsing habits can result in echo chambers in regards to political recommendations using Python and Selenium. Analyzed different models for tagging graphs of political content.

PUBLICATIONS:

- Shao, H., *et al (including Lake Yin)*. (2021, December). *Simulating Online Social Response: a Stimulus/Response Perspective.* Paper to be presented at WSC 2021

PROJECTS:

- **CSSAW - Citizen Science for South African Water (Summer 2020, Open Source):** Worked on developing tools to pull dam water level data from archives and normalization of said data utilizing Pandas and Python. Visualized data using Plotly to present progress to the community. Assisting in development of a machine learning model to predict river water levels using data from various sources.

TECHNICAL SKILLS:

- Proficient in: Python, Java.
- Prior experience with: C , C++, SQL, JavaScript.
- Utilized: Git, Eclipse, Gradle, Android Studio, GraphQL, AWS Lambda.

ACTIVITIES & LEADERSHIP:

- **HackRPI - Director of Sponsorship:**
  - Responsible for outreach to companies and recruiters to look for sponsorships, mentors, and judges.
  - Discussed event and sponsorship details with prospective companies.
  - Managed invoices for sponsorship.