Lixuan Xia

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Education

University of North Carolina at Chapel Hill Chapel Hill, NC   (August 2016 – May 2020)
- B.A in Physics and Astronomy, Quantitative Finance
- Minor in Computer Science.
- Buckley Public Services Scholar.
- Relevant coursework: Web Development, Data Structures & Algorithms, Computer Networking, Circuits, Physical Computing.

Experience

Network Engineer Intern
Cisco Systems, Research Triangle Park   (July 2019 – October 2019)
- Experienced with TCP/IP routing.
- Installed, operated, and troubleshooted small enterprise branch networks.

Python Developer Research Assistant
UNC Biomedical Research Imaging Center, Chapel Hill NC   (August 2018 – August 2019)
- Developed Python methods for processing fMRI data.
- Processed fMRI data using Python and data processing libraries (Scikit-learn, Pandas, NumPy).
- Performed regression and ICA analysis on fMRI data. GitHub: https://github.com/LeekSwan/fmri-processing

Projects

Portfolio Website: leekswan.github.io
Study Hall
- Developed interactive web app to create a suitable study space by utilizing jQuery and Ajax.
- Incorporated user authentication, music player, to-do list, scoring-system, and quote API.
- Integrated RESTful back-end server enabling user data to be stored persistently in database.

Social Circle
- Utilized React.Js, Express.Js, and SQL to develop a web app able to track users and calculate friend circles.
- Intended to estimate exposure to people through secondary contact and further.

Solar Tracking System
- Designed Solar tracking system using C++ on Arduino to accurately track the location of the sun.
- Improved efficiency by reducing motors necessary to drive tracking system.

Python Web Scraper
- Wrote Python code to scrape infinite scrolling sites.
- Utilized requests to automatically authenticate user.

Leadership

Operations Chair at PRSM Dance Inc., Chapel Hill NC   (March 2019 – May 2020)
- Organized monthly workshops totaling over $5,000 in revenue.
- Created, coordinated and lead annual showcase bringing over 10 teams across the east coast.
- Optimized cost and revenue to increase total profit by 15%.

Artistic Director at Moonlight Dance Crew, Chapel Hill NC   (May 2019 – May 2020)
- Lead developer and choreographer for concept video.
- Handled artistic direction of dance crew of over 30 people including music production and transitions.
- Worked with choreography team to produce complete dance choreography.

Skills

Software: *(Proficient):* Python, Java, Javascript, HTML/CSS, jQuery, Bootstrap, TCP/IP
             (Familiar): C++, SQL, MATLAB, Node.Js, React.Js,