JASON LU

Jasonlu@u.northwestern.edu · (630) 802-6386 · Evanston, IL 60201
https://lujason.com/ · https://github.com/Jasonxlu · https://linkedin.com/in/jasonlu230

EDUCATION

NORTHWESTERN UNIVERSITY   **EVANSTON, IL**
BACHELOR AND MASTER OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.72/4.00   Expected June 2025
- *Data Science and Engineering Minor,* Relevant Coursework: C/C++ Programming | Data Structures and Algorithms
- Activities: Society of Asian Scientists and Engineers (Head of Events), Northwestern FinTech Club (Project Manager)

EXPERIENCE

NORTHWESTERN FINANCIAL TECHNOLOGIES CLUB   **EVANSTON, IL**
INTERIM PRESIDENT, TECHNICAL LEAD   June 2022 – Present
- Served as leadership to technical teams to better coordinate API integration with backend data pipelines and CLI
- Spearheaded infrastructure team to boost software production by assigning deadlines and resolving codebase issues
- Established team workflow and organized weekly meetings for 10+ developers to track progress of systems development
- Built trading site for Northwestern University Stock Exchange, a full exchange and market simulation with RESTful API, WebSocket feed, and brokerage interface to facilitate high volume stock market contests.

SOFTWARE INFRASTRUCTURE ENGINEER   March 2022 – June 2022
- Developed and documented storage paradigms for 5+ data streams using high-performance Python multiprocessing
- Converted WebSocket streams into JSON format for simplified data processing and variable time storage using databases
- Integrated and developed APIs to allow other teams to optimize querying requisite data more easily and efficiently

THE GARAGE   **EVANSTON, IL**
COMPUTER CONSULTING AIDE   October 2021 – June 2022
- Instructed students and faculty on operation of commercial VR/AR platforms to encourage interest in technology trends
- Supervised use of 3D printing, laser cutting, and electronic equipment to jumpstart prototyping for Garage startups
- Operated suite of AV equipment to support weekly entrepreneurial and workshop events for Garage residents

PROJECTS

NORTHWESTERN STOCK EXCHANGE TRADE SITE | *React.js, TypeScript, Next.js, TailwindCSS*   August 2022
- Streamed algorithmic engine data using RESTful API and React Hooks to display simulation market data in real-time
- Designed data pipelines in Figma and built trading page layout using React.js function components and Tailwind Flexbox
- Integrated FusionTime candlestick chart and live AgGrid class components with JSX expressions to facilitate stock trading

LC LEADERBOARD | *React.js, JavaScript, Next.js, GraphQL*   July 2022
- Developed custom LeetCode statistics tracker for Northwestern's Financial Technology Club to boost intrinsic motivation
- Calculated and statically rendered ranking of members using LeetCode API GraphQL queries to pull account data
- Launched leaderboard with Vercel and GitHub to create CI/CD pipeline for streamlined development and deployment

PAC-MAN++ | *C++, Git, GitHub, UNIX* Shell   May 2022
- Constructed Pac-Man game from scratch using subset engine of SDL2 in C++ dev environment with Git version control
- Built user-interactive GUI using Model-View-Controller architectural pattern to enable player-driven gameplay
- Designed multiple level progression with custom sprites, 2D hitboxes, event handlers, and conclusive unit-testing

WEB PORTFOLIO (lujason.com) | *HTML, CSS, JS, Markdown, Jekyll, Git*   Dec 2021 - Present
- Produced personalized HTML, CSS, JS, and Markdown snippets to host technical projects and applications on the web
- Employed simple static web hosting using Jekyll and GitHub pages to optimize site ease-of-access and reliability
- Optimized cross-compatibility of portfolio website across multiple devices using CSS media queries

TECHNICAL SKILLS

Programming Languages · Python, Java, C, C++, JavaScript, Typescript, Racket, SASS, HTML, CSS, Markdown, SQL
Technologies · Git, React.js, Next.js, Firebase, TailwindCSS, WebSocket, NodeJS, Python Multiprocessing, Bootstrap, Kivy
MATLAB, UNIX Shell, GitHub, Figma, Jest, MySQL, Jekyll, Python Asyncio, FusionCharts, AgGrid, SQLite