Richard Lam

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EDUCATION

Northwestern University   Evanston, IL
B.S. in Computer Science and Statistics: Cumulative GPA: 3.74   Expected June 2024
Financial Economics Kellogg Certificate Program for Undergraduates

EXPERIENCE

Capital One   Chicago, IL
Software Engineer Intern   June 2022 – August 2022
- Developed analytics features using Angular and NgRx to help monitor transactions, forecast high volume periods, and plan for higher capacities for over 14000 APIs on Capital One's internal API and data asset management platform
- Created, tested, and optimized AWS EventBridge rules, reducing cold wait times for AWS Lambda functions by over 80%

Software Engineering Summit (SES) Summiteer   August 2021
- Created web application to help travelers find cheap flights with Skyscanner API, React, Tailwind CSS, and Firebase
- Won 1st prize at hackathon for developing a cat themed mobile investment game using React Native and Alpaca API

Design, Technology, Research @ Delta Lab   Evanston, IL
Student Researcher   January 2022 - Present
- Design and conduct user studies with lo-fi prototypes to explore novel paradigms in online social connection
- Research, develop, test, and deploy new features for Collective Narrative, a Meteor and iOS application that opportunistically connects communities at a distance through Context Awareness and crowdsourced storytelling

The Collaborative Technology Laboratory   Evanston, IL
Undergraduate Research Assistant   July 2021 – November 2021
- Built a chat interface using React, Node, AWS EC2, and socket.io to collect and analyze keystroke dynamics for a research project aimed at identifying and understanding linguistic markers that promote successful collaboration

rideBelay   Chicago, IL
Software Engineer Intern   May 2021 - September 2021
- Developed Proof of Concept for real-time background accelerometer data recording to Firebase in Flutter and React Native to help inform software architectural decision at an early-stage startup working to provide income stability for gig drivers
- Wrote Python scripts with multithreading to test and document API rate limits to see if APIs met technical requirements

Unfound | The Garage at Northwestern   Chicago, IL
Software Engineer Intern   October 2020 - April 2021
- Integrated Mapbox APIs with a React Native application to help users discover and share unique travel experiences
- Extended internal API to enable SSO authentication with multiple providers (e.g. Google, Facebook)

LEADERSHIP

Develop + Innovate for Social Change   Evanston, IL
Co-President   April 2022 – Present
- Identify and spearhead new strategic initiatives to improve DISC's core operations and expand the organization

Technical Lead   March 2021 – June 2022
- Managed 8 teams of 6-7 students to ensure delivery of high-quality software products to partnered local organizations
- Planned and hosted weekly workshops to teach students full stack technologies and help resolve project blockers

Lead Developer   January 2021 – June 2021
- Led a team of 9 students to develop a job matching tool for World Relief Chicago using React and Google Maps API
- Mentored team members on rapid prototyping with Figma and agile software development methodologies

Northwestern University   Evanston, IL
Undergraduate Teaching Assistant   January 2021 – March 2022
- Held weekly tutorial sessions and graded assignments on topics like REST API, WebSocket, ORM, MongoDB and Heroku
- Supported 2 teams of 8 students during class and held weekly office hours for a functional programming course in Racket

SKILLS

Programming Python, C, C++, Java, C#, JavaScript, Node, React, Angular, Flutter, Spring, HTML, CSS, PostgreSQL, R, MongoDB
Software   Slack, Jira, Confluence, Microsoft Excel, Figma, Jupyter, Git, Firebase, Heroku, AWS, Linux, Docker, XCode
Languages   Fluent in Mandarin and Cantonese