

James Li

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Education

Bachelor of Science in Computer Science

Expected Graduation: July 2024

University at Buffalo, The State University of New York

Coursework: Functional Programming, Systems Programming, Algorithm Complexity & Analysis, Computer Organizations, Software Quality & Practice, Web Applications, Web Design, Object Oriented Programming, Data mining, Reinforcement Learning

Skills

- Python | JavaScript | Java | TypeScript | C++ | C | Node | React | React Native | graphql | Dynamo | s3 | Git | Scala | Mips | Arms | SystemVerilog | numpy | pandas | Scikit | Postgresql | Express | MongoDB | Bootstrap | TailWind

Experience

Resilience, Inc

June 2023 - August 2023

Full-Stack Software Engineer Internship

New York, NY

- Utilized Expo's geolocation module to seamlessly access device location across both iOS and Android platforms, ensuring consistent performance and user experience across devices (Expo, React Native)
- Collaborated closely with designers and product managers to transform complex UI/UX designs into responsive and visually appealing interfaces, ensuring consistent brand identity and intuitive navigation (Html, CSS, Javascript, JSX, Figma)

Interactive Map for Organizations at University at Buffalo

February 2024 - Current

Frontend Software Engineer

New York, NY

- Developed features such as zooming in and out, panning, and clicking on different markers or areas to display additional information using JavaScript, HTML, and CSS
- Worked with 25 sponsors for the organizations at UB to ensure the map met their specific needs and requirements

Projects

LINKR - Social Media App

April 2024 - Current

<https://linkrapp.com/>

- User registration and login with email/password integration using AWS Cognito with AWS SES for sending real-time email notifications to users for authentication. While using context in for state management across the application
- Users stored and managed in AWS DynamoDB and graphql to access it and direct messaging between users with real-time updates through graphql subscription.
- Bottom sheets created with expo blur to make an elegant UX/UI design. Website frontend built using react and tailwind currently just frontend and hosted on aws route53.

Saute - Recipe App

February 2024 - May 2024

<https://webdev.cse.buffalo.edu/hci/teams/ben10>

- Developed REST API endpoints for creating, updating, and deleting posts using Swagger API to create, view, and interact with posts and comments along with using React to create frontend with email authentication.

Chat messaging Web App

February 2024 - May 2024

- Developed a chat messaging web app using JavaScript, HTML, MongoDB, and Python. Implemented secure authentication with JWT, with real-time messaging with WebSockets, and efficient data management with MongoDB.
- Designed media handling for text, images, and videos, and ensured smooth streaming and large file handling. while handling buffering for larger files. Docker for containerization to streamline development, testing, and deployment processes.

Supervised Learning Example: Linear Regression

July 2023 - August 2023

- Preprocessed data using Pandas and NumPy libraries on salary data found on a csv file through Python
- Through Sklearn library to create a linear regression model which was trained on miscellaneous salary data
- Created data plot to show effect of salary based on years of experience and showcased on plot using Matlab library

Instant Messenger

October 2022

- Developed a chat messaging system that was able send messages to a server and get responses from users
- Used structs and pointers in C to develop proper integrations of special characters to allow users to @ eachother in the chat through functional programming
- Worked in hand with a python server api to send messages across to the server

Extracurriculars

Society of Asian Engineers (SASE)

Fall 2023 - May 2024

- Attended NorthEast Regional Conference to network with other Asian Engineers