James Li

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Education

Bachelor of Science in Computer Science   Graduation: July 2024
University at Buffalo, The State University of New York

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) while working with designers and product managers to transform complex UI/UX designs into responsive and visually appealing interfaces.

Projects

Personal Portfolio   February 2023 - Current
https://jamesli.dev/
- Built a responsive personal portfolio website using Next.js, TypeScript, and UI libraries, showcasing projects, skills, and experiences with a modern, user-friendly design.

LINKR - Social Media App   April 2024 - Current
https://linkrapp.com/
- Implemented user authentication with AWS Cognito, real-time email notifications via AWS SES, and state management using context; managed users and messaging with AWS DynamoDB and GraphQL subscriptions for real time messaging.
- Designed and created frontend with react native and css and also deployed a website for the mobile app on AWS Route 53.

Simple Blockchain   September 2024
- Created a TypeScript-based blockchain application with Node.js using crypto library and, implemented transaction handling, proof of work, and wallet management, secured using SHA-256 hashing.

Sentiment Analysis API: Finbert model   August 2024
- Developed a sentiment analysis tool using Python with FinBERT, integrated with FastAPI to create a RESTful API to easily classify text sentiments, leveraging PyTorch and CUDA for enhanced performance.

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

To-Do List Application   July 2022
- Developed a responsive to-do list application with React and Express.js. Also designed PostgreSQL database schema for efficient task management. Implemented RESTful API for CRUD operations on tasks..

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

Extracurriculars

Society of Asian Engineers (SASE)   Aug 2023 - May 2024
- Attended NorthEast Regional Conference to network with other Asian Engineers

UB Hacking   Aug 2023 - Dec 2024
- Worked on the web development team for University at Buffalo's annual hackathon