Shuo Li

Ann Arbor, MI (734)730-5889 lishuo2332@gmail.com

GitHub: https://github.com/shuoO-24 LinkedIn: https://www.linkedin.com/in/shuolii/

Education

University of Michigan   **Ann Arbor, MI**
Computer Science B.S.E 4.0 GPA with Dean's Honor List   2021–2024
Related Coursework: Machine Learning, Compiler Construction, Web Systems, Data Structures and Algorithms, Computer Security, Discrete Math, Computing Theory, Computer Architecture, Statistics and Probability, Web Design and Development, Linear Algebra

Professional Experience

Internship in Lifelong Learning Lab - Michigan CSE, EZMeeting Project   **Ann Arbor, MI**
Research Internship (Software Development) - Python, Django, JavaScript, Redis, WebSocket   April 2022 - Now
  – Developed and maintained an online video-based meeting tool with realtime transcription with notes.
  – Redesigned **Django** models to reduce the response time by 10 times and built **minimap** API in **JavaScript**.
  – Wrote **Python** scripts to process and analyze user log data and transcription to learn user behavior.
  – Led the deployment of projects of the lab on DigitalOcean and held user study with 120 users.

Instructional Aide in Intro to Computer Security - Michigan CSE   **Ann Arbor, MI**
Teaching Assistant - Golang   August 2022 - Now
  – Worked in EECS 388 (Intro to Computer Security), a 400+ student course on the main computer science track.
  – Taught discussion sections to reinforce conceptual understanding and review course material covered in lecture.
  – Tested student understanding of learning goals by devising exam questions and redesigning course projects.
  – Collaborated with course staff to ensure the student experience was as smooth as possible.

Internship in Department of Development & Research, SUNGROW   **Anhui, China**
Software Engineer (Algorithm Development) - Python   January 2021 - March 2021
  – Utilized common machine learning algorithms like **classification**, **logistic regression** and **random forest** and trained models on data management and prediction of performance of three new products.
  – Built **modeling APIs** in cross-platform and solved compatibility issues with kernel and environment modifications.

Projects

Web Systems Projects   **Ann Arbor, MI**
React, Flask, SQLite, Hadoop   September 2022 - Now
  – Developed an Instagram-like web application using **React** for front-end, **Flask** for back-end, and **SQLite** for database, supporting features like user sign-in, posts and comments.
  – Built a multi-worker and fault-tolerant MapReduce server in **Python** which can process user-submitted tasks.
  – Implemented a search engine from scratch, based on text segmentation, **Hadoop** MapReduce indexing, and tf-idf scores.

E-commerce Application for Online Shopping   **Ann Arbor, MI**
React, Redux, Django, Postgres   February 2022 - March 2022
  – Developed an online shopping e-commerce application using **React**, **Redux**, **Django**, and **Postgres**.
  – Implemented server-side **REST APIs**, such as user profile service, product review service, shopping cart service and order service using **Django**, and **Postgres**.
  – Managed global state with **Redux (Actions Reducers)** and used **Git** as source code version control, and created an extensive back end with **Express**.
  – Developed a single page front-end to integrate using **HTML**, **CSS**, **React** with Functional Components & Hooks.

Skills

Programming languages: C++, Python, Java, JavaScript, Rust, R, LaTeX, C, SQL, HTML, CSS, Golang
Framework: Spring Boot, Spring MVC, Spring Data, React, Django, jQuery, Ajax
Database: SQLite, Mysql, MongoDB, Redis
Tools: Git/Terminal, VSCode/IntelliJ