JIANGWEI SHI

Tel: (518)-428-3680 | Email: Jiangweishi8@gmail.com | LinkedIn | GitHub | Portfolio

Experience

Global Data Tek | Full Stack Engineer May 2024 – Now | CA

- Engineered enterprise-grade applications with **Java**, **Spring Boot**, **Spring MVC**, and **JPA**, designing **RESTful microservices** for scalable system communication.
- Led end-to-end development of core modules (Login, Signup, Timesheet, Member Search) in an **Agile Scrum** workflow, boosting performance by 40% and enhancing UX.
- Architected a layered backend structure (Controller, Service, Repository), optimizing database access via **JPA**, which cut query latency by 35%.
- Established testing pipelines (unit + integration) to resolve critical bugs and increase deployment reliability.

One Community Global | Software Engineer May 2023 – May 2024 | NY

- Directed a 10-member team to develop a **Java/JavaScript**-based portfolio generator, boosting users' job acquisition rates by 60%.
- Applied **Spring MVC** to enforce separation of concerns, improving maintainability and modularity of the backend system.
- Built a real-time group chat using **React** and **Mantine**, enhancing internal team communication.
- Integrated **Async/Await** patterns to streamline asynchronous UI workflows and improve responsiveness.

Valitee | Front End Web Developer Intern May 2022 - Aug 2022 | MA

- Built an interactive chat feature using **TypeScript**, **React**, **MUI**, and **Redux**, increasing user engagement by 30%.
- Integrated real-time communication via **Socket.IO** and managed side effects using **Redux-Saga** for seamless UX.
- Designed modular UI components (e.g., chat drawer) to enhance user accessibility and interface clarity.

Publications

BIAS In NLP May 15, 2021

- Analyzed gender bias propagation in NLP systems using word embeddings and cosine similarity. Developed a classification framework across five bias domains to improve model fairness and accuracy.

Rate Pets' Images And Find Their Pawpularity Dec 15, 2022

- Developed computer vision algorithm to assess shelter pet profile appeal using image and tabular data, creating "Pawpularity" metric to optimize adoption chances and reduce animal suffering.

Education

Northeastern University | Master of Science in Computer Science Sep 2021 – May 2023

- GPA: 3.7/4.0
- **Relevant Courses:** Programming Design Paradigm, Artificial Intelligence, Algorithms, Web Development, Operating System

University at Albany | Bachelor of Computer Science Sep 2017 – June 2021

- GPA: 3.60/4.0
- **Relevant Courses:** Discrete Structures, Data Structures, Algorithms, Design Pattern

Skills

- **Languages:** Java, JavaScript, TypeScript, Python, SQL, HTML, CSS
- **Frameworks & Libraries:** Spring Boot, Spring MVC, React, Node.js, Redux, MUI, Mantine
- **AI & ML Frameworks:** TensorFlow, PyTorch, OpenCV, Pandas
- **Tools & Databases:** Git, Docker, MySQL, MongoDB, Redis, Postman
- **Architecture & Concepts:** REST APIs, Microservices, MVC, JPA, Agile Scrum