

LOUIE LEE

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EDUCATION

M.S., Northeastern University, Boston MA

September 2021 – December 2023

- Software Engineering Systems • GRE Quantitative Test 169/170

B.A., Clark University, Worcester MA

January 2017 – June 2021

- Computer Science; Applied Mathematics • Dean's List: Second Honor of Spring 2020

PROFESSIONAL EXPERIENCE

Front-End Developer, Beijing Jia Hui Min Tech. Dev. Ltd., Beijing, China

May 2023 – September 2023

- Spearheaded the **complete development cycle** of the official website www.bjjhmtech.com utilizing a range of technologies such as **React.js, SASS, JavaScript, Node.JS, Git**, along with **web hosting** and **DNS resolution** techniques
- Worked in close partnership with managers to achieve design goals smoothly and efficiently
- Led the website **UI/UX** design, incorporating **CSS styling** and **animations** to craft a **dynamic** and **responsive website** across devices
- Designed a **resource-efficient** website structure that offloads computing tasks to the client end while maintaining **security** constraint
- Boosted website performance by implementing **lazy loading** and **image compression** techniques, achieving an impressive **FCP of less than 1.8s**
- Conducted **research** on various **cloud service providers**, successfully establishing **DNS resolution** and **rerouting** with Tencent Cloud and GitHub Pages, and deploying the website on a live server

IT Operations Intern, NetBrain Technologies Inc., Burlington, MA

September 2022 – January 2023

- Mastered **MS Active Directory** for managing workforce user accounts and **MS Intune** for workforce devices, integrated with security software that **prevents** potentially **harmful content from data breach**
- Utilized **Python** scripting to **identify problematic** user accounts with **conflicting metadata** between on-premises and cloud databases
- Conducted research on MDM solutions, established **benchmark** metrics for **evaluation**, deployed Addigy MDM for workforce devices in production, and **documented** technical **specifics** comprehensively
- Collaborated effectively with the IT team to **organize** monthly new customer onboarding **training sessions**, recognized with the **“Team of the Season”** award for outstanding teamwork
- Consistently performed routine IT tasks, resolving 95% of **IT tickets** promptly, conducting bi-weekly **server maintenance** to prevent production errors, and **procuring hardware** to meet evolving demands

PROJECTS

Automotive Marketplace Powered by Machine Learning React.js, Jakarta EE, Redis, OracleSQL, Deep NN, Python, TensorFlow

Full-Stack Software Developer

- Coordinated a cross-functional development team in designing and implementing an innovative Online Automotive Marketplace that leveraged **machine learning** to provide personalized vehicle **recommendations based on** user-uploaded **images**
- Engineered the responsive front-end using **React.js**, designed **RESTful APIs** for data fetching, and managed **OracleSQL** database schema design
- Employed **Redis** caching, leading to a **35%** reduction in page load times.
- Architected the scalable and secure back-end infrastructure utilizing **Spring Framework and Jakarta EE**, achieving **99.9% uptime**
- Integrated **Deep Neural Network** models for vehicle recognition and recommendation, resulting in a **76%** accuracy rate for image recognition

Movie Recommendation System Scala, MongoDB, Maven, Git, Java, Kafka, Rest API, MVC

Group project, Leader, CSYE 7200 Big-Data Sys Engr Using Scala, Northeastern University

- Organized a **group of 3 people** to build a real-time and aggregative movie recommendation system
- Designed the **system structures** and **modules** by analyzing the layers of the software purpose
- Analyzed the **runtime environment** requirements and deployed relative **services** to working nodes
- Constructed **recommendation models** of the system **based on content** relativity, **statistics**, **real-time** activities, and **user history** activities with approximately **95% accuracy**

SKILLS ✖ denotes high proficiency

C/C++, Python*, Java*, JavaScript*, TypeScript*, Scala, XML*, PL/SQL*, CSS*, Bash, React*, Spring Framework*, Bootstrap*, MySQL*, TensorFlow*, Apache Tomcat*, AWS, Apache-Server*, Git*, Maven*, Pandas*, Data Structures*, Algorithms*, Reverse Proxy*, Machine Learning, Memory Management, Rest API*, Database Management*, MongoDB*, JSP*, Servlet*