JIAHANG LI

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EDUCATION

Boston University — **Boston, MA**
Master in Computer Science — **Sep 2022 - Expected May 2024**

Fudan University — **Shanghai, China**
Bachelor in Computer Science and Technology — **Sep 2018 - Jun 2022**

- President of Student Council, College of Computer Science. Directed a school-wide programming exchange platform.

SKILLS

- **Language**: C/C++, Python, HTML/CSS, Java, Javascript
- **Framework**: Node.js, Django, React.js, Spring Boot
- **Tools & Platforms**: Git, Postman, Docker, Github, GitLab, Linux, SQL, MySQL, MongoDB

PROFESSIONAL EXPERIENCE

Algorithm Engineer Intern | NewsBreak |China — **Jan – Apr 2021**

- Constructed a full stack local news platform, supplemented functions using **Sanic**, such as administrator's assignment of tasks and multi-level urban planning drop-down list.
- Devised front-end using **React.js**, upgraded back-end in **MongoDB**, and executed product testing with postman.
- Led version control, fixed out of sync trouble between server and client with auto timestamp.
- Implemented a machine learning pipeline to extract and label data for the labelling team, tuning and testing web page classification model for 0.4M web page, increasing performance accuracy from 89% to 95%.
- Utilized Git for version control and developed detailed program design and documentation

Research Assistant | Knowledge Works Research Laboratory, Fudan University | China — **Apr 2020 – Feb 2021**

- Researched user requirement and created a solution to increase prediction model accuracy on Chinese abbreviation.
- Discovered issue as a sequence generation problem with a novel seq2seq model, formulated and accomplished a conversion function to convert labels into meaningful vectors, improving model accuracy by 4%.
- Conducted **A/B testing** to evaluate new model structure, analyzed anomalies, and identified areas for iteration.
- Installed a large-scale database for specialized domains, supporting 87K API calls, and obtained 0.59% and 0.86% percentage lift on Meituan App and Dianping App, respectively.

PROJECTS

Full-Stack BLOG APP: BLOGGER | *Node.js, Spring Boot, React.js, MySQL*

- Designed a social media application to display activities and interact with other users, created the front-end in React.js and connected the backend with **Node.js**, and developed back-end in **Java and Spring Boot** for consistent real-time data.
- Identified opportunities to reduce server pressure and network latency by implementing a proxy with http-proxy-middleware for high concurrency environments, reducing HTTP calls by 8%, and database queries by 15%.
- Utilized **EJS** to empower HTML template transfer and static files serving,
- Designed and developed database schemas to store user information and blog content in MySQL
- Performed security protocols and management of sensitive data and personal information using **dotenv**.

Full-Stack Multi-function PDF Reader: MyPDF | *Django, SQL*

- Implemented a PDF Reader application to read books, jump pages, add books and download books using standard SocketAPI programming.
- Built front-end with **Qt5**, deployed back-end with **Django**, and established an interactive database with **SQL**.
- Added the **FTP** function and set client request format, transferring hundreds of files through FTP in less than 0.1 second.
- Controlled Multi-thread requests from client, and bind user actions with shortcuts.

PUBLICATIONS

- Yu Hong, **Jiahang Li**, Jianchuan Feng, Chenghua Huang, Zhixu Li, Jianfeng Qu, Yanghua Xiao, Wei Wang "Competition or Cooperation? Exploring Unlabeled Data via Challenging Minimax Game for Semi-Supervised Relation Extraction", Proceedings of the 37th Association for the Advancement of Artificial Intelligence. 2023.
- Chao Wang, Jingping Liu, Tianyi Zhuang, **Jiahang Li,** Juntao Liu, Yanghua Xiao, Wei Wang and Rui Xie. "A Sequence-to-Sequence Model for Large-scale Chinese Abbreviation Database Construction", Proceedings of the 14th ACM International Conference on Web Search and Data Mining. 2022.