Hang LI

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Educational Background

The University of Queensland (Australia)   **07/2019 – Present**
- Pursuing Master of Science in Computer Science (GPA 6.7/7)

The University of Minnesota, Twin-Cities (United States)   **08/2012 – 05/2016**
- Bachelor of Science in Computer Science (Top 25% in Major)
- Winner of Global Excellence Scholarship for four consecutive years (2012-2016).

Employment History

The University of Queensland (St. Lucia, QLD, Australia)   **11/2019 – Present**
Position: Research Scholar

Main Duties:
- Conducting research under Dr. Guido Zuccon's supervision in information retrieval field, specifically in the search query refining area, collaborating with Harrison Scells;
- Developed a series of tools and modules based on the concepts and papers for the research process, made significant contributions towards the research project;
- Participated in regular discussion with collaborator Harrison Scells and provided viable solutions to research obstacles, as well as refactored partial codebase;
- Working on developing more tools to produce a Demo paper at the end of the summer research program.

Henan She Chuan Technology Co., Ltd. (Zhengzhou, Henan, China)   **07/2018 – 07/2019**
Position: Full Stack Developer Lead

Main Duties:
- Took charge in developing server side APIs to provide all kinds of services on the front end;
- Participated in developing front end web pages and UI design;
- Designed the database structure for MySQL, Redis, and MongoDB;
- Developed a middleware to manage the communication between server side and the databases;
- Developed a authentication system for internal use only, and integrated with a third-party Office Assistant system;
- Perform other duties as required.

LuWeiLin Decoration and Design Engineering Co, Ltd. (Guangzhou, Guangdong, China) **03/2018 – 07/2018**
Position: Software Developer and Backend Software Developer

Main Duties:
- Independently refactored the entire backend of the company system;
- Developed the middleware to manage the communication between front end, server side and databases, greatly reduced the code coupling;
- Participated in designing an online home decoration visualization website;
- Developed several modules to improve the user experience on the website, including a basic search engine to allow users to search for desired home decoration plan;
- Perform other duties as required.

Shenzhen Dianmao Technology Group (Shenzhen, Guangdong, China)   **06/2017 – 03/2018**
Position: Backend Developer

Main Duties:
- Independently developed the entire backend v1.0 of an online web game called Tower of Babel, this game is still online with v4.0 now;
- Independently developed a user management system for internal use only, to manage employee's authorizations on accessing company data and front interfaces;
- Developed a naïve chatbot for the customer service department, adopted the Fuse.js package to develop a basic search engine to perform fuzzy search in the knowledge base, and designed a graph database to store relevant knowledge and the relationship in between;
- Refactored partial of the backend codebase, reduced the code coupling;
- Developed the entire backend APIs of a mobile game app called Code Cat in a week, refactored the old database structures and designed new database schemes to speed up data access.

First Capital Fund Management CO., LTD (Shenzhen, Guangdong, China)   **08/2016 – 06/2017**
Position: Full Stack Developer

Main Duties:
- Developed the front end web pages of the company, developed the entire backend of the company's system;
- Participated in developing the quantity trading platform with the investment department, in charge of developing the server side services and server configurations;
- Participated in developing the Office Assistant system, developed an internal chat software in python and integrated into the OA system;
- Perform other tasks upon requirements.

The Velocity Tech Solutions Inc. (Roseville, Minnesota United States)   **02/2016 – 07/2016**
Position: Software Developer

Main Duties:
- Refactored and optimized company website, developed multifunctional features within the store web page;
- Participated in demand analysis of the company's internet finance projects, drafted technical files, developed core modules, ran unit tests, designed and developed subpage and product display page of the company website;
- Drafted software design plans according to product requirements, participated in backend system architecture and database structure design;
- Participated in designing and developing company App, in charge of QA during the testing phase.

Research Publication

Currently, I only have one paper that was written during my bachelor's study, this is a simple paper that was a result of a course in the University of Minnesota called Introduction of Artificial Intelligence where we were asked to compare the differences between these algorithms by using self-implemented Sodoku solvers. This is not my most significant publication, but this is what I have for now.

[1] Hang LI (Li, 2017), Comparison of DFS and Backtracking DFS, *Digital User*, ISSN 1009-084, November, 2017. (Wan Fang Database included).

Digital User is a leading magazine in China's digitalization process, which was first published in 1992. It was approved by the State Administration of Press and Publication, and hosted by Sichuan Science and Technology Institute, Sichuan Computer Promotion Association, and Computer Business Intelligence. Domestic Issue Number: CN51-1567/TN, International Issue Number: ISSN1009-0843.

Most Significant Publications

None to date

Research Grants

None to date

Academic Referees

Dr. Guido Zuccon
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Reference:

Li, H. (2017). Comparison of DFS and Backtracking DFS. *Digital User*, *23*(41), 5.

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