

Xiaoying Chang

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OBJECTIVE

- Highly self-motivated personal seeking a software developer position.
- With full stack/React web app development, and large app platform modification experience.

SKILLS

Basics	<ul style="list-style-type: none">• Algorithms, Data Structures, Computer Networks, Web Development, Git, GitHub, Webpack
Languages	<ul style="list-style-type: none">• Java, JavaScript, Python, HTML5, CSS3, C, C++
Framework/Library	<ul style="list-style-type: none">• Bootstrap, jQuery, React, Redux, Express.js, Node.js, Mongoose
Platform	<ul style="list-style-type: none">• Firebase, AWS
Database	<ul style="list-style-type: none">• MongoDB, PostgreSQL

EXPERIENCE

2015.09 – present	Research Assistant <i>Carleton University, Ottawa, ON, Canada</i> <ul style="list-style-type: none">• Proposed and simulated a collaborative search approach to locate physical objects, which saved 56.7% energy with the best search accuracy and time.• Formulated two greedy algorithms to achieve the maximum sensing coverage, and most accurate object position localization.
2017.02 – 2017.07	Software Developer (Intern) <i>You.i TV, Ottawa, ON, Canada</i> <ul style="list-style-type: none">• Designed and implemented a multithread server, reduced memory usage of existing huge singleton app platform by at least 13%.• Proposed and applied “PerClientSingleton” method, which enabled multiple clients to be served in parallel with the least modification to the original engine code.
2015.09 – 2016.07	Software Developer (Intern) <i>Gnowit, Ottawa, ON, Canada</i> <ul style="list-style-type: none">• Developed a novel web crawler to fetch contents from deep inside the domain based on use requirements at low time cost.• Identified special characteristics of Rich Internet Application (RIA), which greatly improved existing crawler by fetching dynamically changing content.

PROJECTS

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| 2018.11 – 2019.01 | “BabyHaul” Full Stack Web Application (Personal Project) <ul style="list-style-type: none">• Created a web app to assist people in selecting popular baby products.• Built the app using Express framework; applied MVC design pattern; styled with Bootstrap4; set up RESTful routing; used Passport.js for authentication; managed data with MongoDB.• URL: https://babyhaul.herokuapp.com |
| 2018.05 – 2018.06 | “Spending” React Web Application (Personal Project) <ul style="list-style-type: none">• Created a React app to keep track of users’ daily spending and manage their financial budget.• Used React-Redux library to manage state, React-Router DOM for URL navigation. Set up authentication and data management using Firebase.• URL: https://spending-react.herokuapp.com |

EDUCATION

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| 2015.09 – current | Ph.D., Carleton University, Canada <ul style="list-style-type: none">• Major: Systems and Computer Engineering• Research Assistant in IoT search area• Grade: A+ |
| 2012.09 – 2015.02 | Master of Engineering, Beihang University, China <ul style="list-style-type: none">• Major: Electronic and Communication Engineering• Postgraduate National Scholarship (3%)• GPA: 89.0/100, rank: 7/93 |
| 2008.09 – 2012.06 | Bachelor of Engineering, Shijiazhuang Tiedao University, China <ul style="list-style-type: none">• Major: Electronic and Information Engineering• Hebei Province Outstanding Graduate (5%)• GPA: 87.4/100, rank: 3/200 |